



# CATALOG

Vol.24

**SET** SOUTHEAST **TOOL**

# Southeast Tool, Inc.

## About the Company:

Southeast Tool, Inc. established a distribution company located in Conover, NC in 1998 for distributors and began selling many tools manufactured by a nearby vendor in the USA. Our vendors manufacture tooling that includes a wide array of woodworking router bits, router bits for plastic, solid carbide spirals, other tooling items and accessories. Over time, the volume of tooling manufactured in the USA has increased.

Since 1998, Southeast Tool has expanded using vendors that have extensive state-of-the-art manufacturing and quality control capabilities. We sell many of our products as Southeast Tool brand name to other local, nationwide and international distributors.

A large amount of our products are made in the USA. These tools have been sold to nationwide home improvement stores, hardware stores and nationwide lumber stores in large volumes for many years. Our cutting tools are used in: industrial applications, plastics industry, furniture manufacturing industries, countertop industry, RV industry, door manufacturers, cabinet manufacturing industries, professional woodworking applications and woodworking by hobbyists to name a few.

### Southeast Tool Mission:

Our mission is to maintain a commitment to provide quality products and dependable service at very affordable prices. Our long-time commitment to high standards in workmanship and service has led to long-term business relationships with our customers.

### We achieve our mission by our resolute commitment to:

- Provide Diverse and Cost Competitive Products
- Offer Personalized Customer Service
- Strive for Continuous Improvement of All That We Do
- Communicate Honestly and With Integrity Which Is To “Say What We Do and Do What We Say”
- Work Together to Enhance Profitably of Our Customers.

Please feel free to inquire about tooling not shown in this catalog. New tooling is continuously being developed to appear in future catalogs. We have the flexibility to provide the cutting tools that meet your needs at attractive prices.

(Be Advised: no portion of this catalog may be reproduced without Southeast Tool, Inc. written approval.)





## **TERMS AND CONDITIONS OF SALES**

**Terms:** All accounts will be given Net 30-day terms if credit is deemed satisfactory by the credit department. A 1-1/2% service charge will be added to all accounts past due. Any account over 60 days will be placed on credit hold until the account is brought current. All invoices correspond with date of shipment, not receipt of goods or invoice. **A \$25.00 service charge will be added for all returned checks. A \$15.00 service charge will be added for all invoices paid by wire transfer.** Southeast Tool, Inc. sells only through a vast network of distributors world wide. Please call or e-mail for the one in your area. Prices subject to change without notice.

**Freight Policy:** F.O.B. Conover NC. Any shortages in transit should be filed with the carrier. Any other shortages should be filed with Southeast Tool, Inc. no more than 10 days after receiving goods. Catalog orders over \$500.00 net will be shipped free ground freight prepaid within the continental USA; this excludes truck shipments.

**Drop Shipments:** All drop shipments are subject to regular terms and minimum order requirements. COD drop shipments will not be accepted.

**Product Guarantee:** All tools are warranted to be free from defects in workmanship. Due to the inherent nature of solid carbide, we cannot guarantee this material. **All warranties are void if tools are altered in any way (including sharpening).**

**Returning Goods:** All returns must be given prior consent by the company. A RGA # will be issued and must be clearly placed on the outside of the package. Southeast Tool, Inc. reserves the right to charge a 20% restocking fee. A copy of the invoice must also accompany the return. This applies to tools ordered in error and returned for exchange. Any tool returned for credit must be a current catalog item and must be returned in original packaging and in resalable condition. The correct tool must have been ordered or an off setting order placed. **No tools will be accepted for return after one year from date of purchase.** Southeast Tool, Inc. assumes no liability for returned goods. It is the shipper's responsibility to package the tools in a manner as to avoid damage in transit. Returned freight must be prepaid.

**Orders:** Orders must be a **minimum of \$50.00 net.** A \$4.00 charge does apply to orders under the minimum. Orders may be placed with Southeast Tool, Inc. by phone, fax, mail, internet, or e-mail. Since orders are processed continually throughout the day, add-ons to orders cannot be guaranteed to ship with other orders that have already been processed.

**Special Tooling:** Because of the vast resources of Southeast Tool, Inc., we can quote on almost any cutting tool that you or your customer may need. Please send a detail sketch or wood sample for a quotation. You may also e-mail drawings or photos to [quotes@southeasttool.com](mailto:quotes@southeasttool.com). To expedite the quote please include the following: cutting diameter, cutting length, shank diameter, overall length, number of flutes, cutting rotation (i.e. RH or LH). We reserve the right to consider an order complete with 20% over or under ordered quantity. **Specials are not subject to return or cancellation.** Custom tooling may require a deposit prior to manufacturing. Although every effort is made to produce specialty tooling to a customer's specific needs. Any defects must be noted in writing to Southeast Tools, Inc. within 120 days of invoice date

**Safety:** Always wear eye and ear protection when working with cutting tools. Do not remove any machine safety guards. The grinding of carbide produces hazardous dust that may be harmful to your health; please use precautions and proper ventilation. Always wash hands before eating or drinking anything after handling carbide products.

# Conversion Chart

Diameter	Decimal	Diameter	Decimal	Diameter	Decimal	Diameter	Decimal
1/64"	.0156"	17/64"	.2656"	13.5mm	.5315"	20.5mm	.8071"
1/32"	.0312"	7mm	.2756"	35/64"	.5469"	13/16"	.8125"
1mm	.0394"	9/32"	.2812"	14mm	.5512"	21mm	.8268"
3/64"	.0469"	7.5mm	.2953"	9/16"	.5625"	53/64"	.8281"
1.5mm	.0591"	19/64"	.2969"	14.5mm	.5709"	27/32"	.8438"
1/16"	.0625"	5/16"	.3125"	37/64"	.5781"	21.5mm	.8465"
5/64"	.0781"	8mm	.3150"	15mm	.5906"	55/64"	.8594"
2mm	.0787"	8.2mm	.3228"	19/32"	.5938"	22mm	.8661"
3/32"	.0938"	21/64"	.3281"	39/64"	.6094"	7/8"	.8750"
2.5mm	.0984"	11/32"	.3438"	15.5mm	.6102"	22.5mm	.8858"
7/64"	.1094"	9mm	.3543"	5/8"	.6250"	57/64"	.8906"
3mm	.1181"	23/64"	.3594"	16mm	.6299"	23mm	.9055"
1/8"	.1250"	9.5mm	.3740"	41/64"	.6406"	29/32"	.9062"
3.5mm	.1378"	3/8"	.3750"	16.5mm	.6496"	23.5mm	.9252"
28	.1405"	25/64"	.3906"	21/32"	.6562"	15/16"	.9375"
9/64"	.1406"	10mm	.3937"	17mm	.6693"	24mm	.9449"
5/32"	.1562"	13/32"	.4062"	43/64"	.6719"	61/64"	.9531"
4mm	.1575"	10.5mm	.4134"	11/16"	.6875"	24.5mm	.9646"
11/64"	.1719"	27/64"	.4219"	17.5mm	.6890"	31/32"	.9688"
4.5mm	.1772"	11mm	.4331"	45/64"	.7031"	25mm	.9843"
3/16"	.1875"	7/16"	.4375"	18mm	.7087"	63/64"	.9844"
5mm	.1969"	11.5mm	.4528"	23/32"	.7188"	1"	1.0000"
5.1mm	.2008"	29/64"	.4531"	18.5mm	.7283"	26mm	1.0236"
13/64"	.2031"	15/32"	.4688"	47/64"	.7344"	28mm	1.1024"
5.5mm	.2165"	12mm	.4724"	19mm	.7480"	30mm	1.1811"
7/32"	.2188"	31/64"	.4844"	3/4"	.7500"	32mm	1.2598"
15/64"	.2344"	12.5mm	.4921"	49/64"	.7656"	34mm	1.3386"
6mm	.2362"	1/2"	.5000"	19.5mm	.7677"	35mm	1.3780"
1/4"	.2500"	13mm	.5118"	25/32"	.7812"	36mm	1.4173"
6.5mm	.2559"	33/64"	.5156"	20mm	.7874"	38mm	1.4961"
6.7mm	.2638"	17/32"	.5313"	51/64"	.7969"	40mm	1.5748"

### Formula for transforming metric to decimal

( mm x .03937 = Decimal )

Example: 8mm x .03937 = .315

### Formula for transforming decimal to metric

( Decimal ÷ .03937 = mm )

Example: .315 ÷ .03937 = 8mm

### Formula for Inches Per Minute(IPM)

RPM x Inches Per Tooth x Number of Flutes

Example: 18000 x .017 x 2 = 612 Inches Per Minute

### Formula for Chipload or Inches Per Tooth (IPT)

IPM ÷ RPM ÷ Number of Flutes

Example: 612 ÷ 18000 ÷ 2 = .017 per tooth

### CHIP LOAD BASED ON 2 FLUTE TOOLS

FEED RATE	SPINDLE RPM'S IN THOUSANDS									
	10000	11000	12000	13000	14000	15000	16000	17000	18000	19000
50	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001
100	0.005	0.005	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003
150	0.008	0.007	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004
200	0.010	0.009	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.005
250	0.013	0.011	0.010	0.010	0.009	0.008	0.008	0.007	0.007	0.007
300	0.015	0.014	0.013	0.012	0.011	0.010	0.009	0.009	0.008	0.008
350	0.018	0.016	0.015	0.013	0.013	0.012	0.011	0.010	0.010	0.009
400	0.020	0.018	0.017	0.015	0.014	0.013	0.013	0.012	0.011	0.011
450	0.023	0.020	0.019	0.017	0.016	0.015	0.014	0.013	0.013	0.013
500	0.025	0.023	0.021	0.019	0.018	0.017	0.016	0.015	0.014	0.014
550	0.028	0.025	0.023	0.021	0.020	0.018	0.017	0.016	0.015	0.015
600	0.030	0.027	0.025	0.023	0.021	0.020	0.019	0.018	0.017	0.017

Inches per min.

CONSERVATIVE VALUES IN THE GRAY

### CHIP LOAD BASED ON 3 FLUTE TOOLS

FEED RATE	SPINDLE RPM'S IN THOUSANDS									
	12000	13000	14000	14500	15000	16000	17000	18000	18500	19000
100	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
150	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003
200	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004
250	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.004
300	0.008	0.008	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005
350	0.010	0.009	0.008	0.008	0.008	0.007	0.007	0.006	0.006	0.006
400	0.011	0.010	0.010	0.009	0.009	0.008	0.008	0.007	0.007	0.007
450	0.013	0.012	0.011	0.010	0.010	0.009	0.009	0.008	0.008	0.008
500	0.014	0.013	0.012	0.011	0.011	0.010	0.010	0.009	0.009	0.009
550	0.015	0.014	0.013	0.013	0.012	0.011	0.011	0.010	0.010	0.010
600	0.017	0.015	0.014	0.014	0.013	0.013	0.012	0.011	0.011	0.011
650	0.018	0.017	0.015	0.015	0.014	0.014	0.013	0.012	0.012	0.012
700	0.019	0.018	0.017	0.016	0.016	0.015	0.014	0.013	0.013	0.013

Inches per min.

CONSERVATIVE VALUES IN THE GRAY

A RANGE OF .007 TO .012 CHIP LOAD IS IDEAL  
TO LITTLE CHIP LOAD AND YOU BURN UP THE TOOL  
TO HIGH A CHIP LOAD AND YOU BREAK THE TOOL

**It is important to note that chip loads will vary according to bit selection, bit diameter, depth of cut and material being cut.**

SOLID CARBIDE BITS		NEW SOLID CARBIDE ROUGHERS	
FLUSH TRIM BITS	10	3 FLUTE HP DOWNCUT ROUGHER	29
BEVEL TRIM BITS	10	3 FLUTE HP UPCUT ROUGHERS	29
FLUSH AND BEVEL TRIM BIT (DOUBLE ENDED)	10	3 FLUTE HP DOWNCUT SLOW SPIRAL ROUGHERS	30
DADO TRIM BITS	10	3 FLUTE HP UPCUT SLOW SPIRAL ROUGHERS	30
HOLE AND FLUSH TRIM BITS	10	3 FLUTE HP DOWNCUT ROUGHERS - LOW HELIX - FINE	30
V-GROOVING BITS	10	3 FLUTE HP UPCUT ROUGHERS - LOW HELIX - FINE	30
SOLID CARBIDE V-POINT BITS	11	SOLID CARBIDE COMPRESSION BITS	
FLUSH AND BEVEL TRIM BITS	11	1+1 COMPRESSION BITS	30
RIP AND SLOTTING BITS	11	1+1 COMPRESSION - LEFT-HAND	31
ROUND BOTTOM VEINING BITS (1 FLUTE)	11	2+2 COMPRESSIONS	31
ROUND BOTTOM VEINING BITS (2 FLUTE)	11	2+2 COMPRESSIONS - MORTISE	31
COVE NOSE SPIRAL BIT (2 FLUTE)	11	2+2 COMPRESSIONS - LEFT-HAND	32
2 FLUTE UPCUT BALL NOSE	11	2+2 COMPRESSIONS W/ CHIPBREAKERS	32
TAPERED BALL NOSE - UPCUT	12	2+2 COMPRESSIONS - MD	33
LINER BITS	12	2+2 COMPRESSIONS - MD MORTISE	33
ENGRAVING BITS	12	2+2 COMPRESSIONS - HD	33
FLAT BOTTOM VEINING BITS (2 FLUTE)	12	2+2 COMPRESSIONS - HD MAX	34
STRAIGHT BIT - 1 FLUTE (GENERAL PURPOSE APPLICATION)	13	3+3 COMPRESSIONS	34
STRAIGHT BIT - 2 FLUTE (GENERAL PURPOSE APPLICATION)	13	3+3 COMPRESSIONS - MD	34
SOLID CARBIDE FIBERGLASS BITS	13	3+3 COMPRESSIONS - HD	34
SOLID CARBIDE WOOD SCREW SLOT BITS	14	4 FLUTE DOWNCUT FINISHNG/ROUGHER	35
FLUSH TRIM BITS (2+2 COMPRESSION)	14	4 FLUTE UPCUT FINISHING/ROUGHER	35
2 FLUTE FLUSH TRIM DOWNCUT BIT	14	4+4 COMPRESSIONS	35
2 FLUTE FLUSH TRIM UPCUT BIT	14	4+4 FINISHING/ROUGHER COMPRESSIONS	35
2 FLUTE FLUSH TRIM COMPRESSION BIT	14	CARBIDE TIPPED STRAIGHT BITS	
CHAMFER 2+2 COMPRESSION BITS	14	1 FLUTE STRAIGHT	36
SOLID CARBIDE BEADING BITS	15	2 FLUTE LEFT-HAND STRAIGHT	36
2 FLUTE SOLID CARBIDE UPCUT DOVETAIL BIT	15	2 FLUTE STRAIGHT	37
		2 FLUTE STRAIGHT	38
SOLID CARBIDE MOAB-COATINGS		2 FLUTE STRAIGHT 3/4 SHANK	39
2+2 COMPRESSION MD SERIES MOAB-PLUS COATING	15	2 FLUTE MORTISE STRAIGHT	39
3+3 COMPRESSION MD SERIES MOAB-PLUS COATING	15	TEMPLATE STRAIGHT	39
2+2 COMPRESSION HD SERIES MOAB-PLUS COATING	15	TEMPLATE STRAIGHT WITH OVERSIZED BEARING	39
3+3 COMPRESSION HD SERIES MOAB-PLUS COATING	16	INSERT TEMPLATE STRAIGHT	40
2+2 COMPRESSIONS - HD MAX - MOAB-PLUS COATING	16	STAGGERTOOTH STRAIGHT FLUTE	40
2 FLUTE SPIRAL DOWNCUT MD SERIES MOAB-PLUS COATING	16	STAGGERTOOTH STRAIGHT OPPOSITE SHEAR	40
2 FLUTE SPIRAL UPCUT MD SERIES MOAB-PLUS COATING	16	CENTER PILOT STAGGERTOOTH	40
DIAMOND TIPPED BITS		PLUNGE PANEL PILOT - 1 FLUTE	40
DIAMOND-TIPPED ROUTER BITS • PCD (1+1 DESIGN)	16	PLUNGE PANEL PILOT - 2 FLUTE	41
SOLID CARBIDE PLASTIC BITS		PANEL PILOT - HSS - 1 FLUTE STRAIGHT	41
O FLUTE STRAIGHT BIT - 1 FLUTE (POLISHED) - LEFT-HAND	17	PANEL PILOT - HSS SPIRAL - 1 FLUTE	41
O FLUTE STRAIGHT BIT - 1 FLUTE (POLISHED)	17	FLUSH TRIM (2 FLUTE)	41
O FLUTE STRAIGHT BIT - 2 FLUTE (POLISHED)	17	FLUSH TRIM (3 FLUTE)	42
O FLUTE ROUNDING EDGE STRAIGHT FLUTE 1 FLUTE (POLISHED)	18	FLUSH TRIM DOUBLE BEARING	42
O FLUTE ROUNDING EDGE STRAIGHT FLUTE 2 FLUTE (POLISHED)	18	FLUSH TRIM V-GROOVE	42
O FLUTE ROUNDING EDGE SPIRAL BIT - 1 FLUTE (POLISHED)	18	OVERHANG	42
O FLUTE UPCUT - 1 FLUTE (POLISHED) - HARD PLASTIC	18	GLUE SPACE FLUSH TRIM	42
O FLUTE DOWNCUT - 1 FLUTE (POLISHED) - HARD PLASTIC	19	EASY EDGE (NO FILING)	43
O FLUTE UPCUT - 1 FLUTE (POLISHED) - SOFT PLASTIC	19	DOWNSHEAR FLUSH TRIM	43
O FLUTE DOWNCUT - 1 FLUTE (POLISHED) - SOFT PLASTIC	19	SCREW-ON MORTISE - INSERT	43
O FLUTE UPCUT - 1 FLUTE (POLISHED) FOR ACRYLIC	20	SCREW-ON MORTISE - ARBORS	43
O FLUTE UPCUT - 1 FLUTE (POLISHED) FOR ALUMINUM	20	SCREW-ON MORTISE - CARBIDE-TIPPED	44
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O FLUTE LOW HELIX UPCUT SPIRAL, 2 FLUTE	20	CARBIDE TIPPED FORM BITS	
O FLUTE HIGH HELIX UPCUT SPIRAL, 2 FLUTE	20	BOWL AND TRAY	44
O FLUTE SLOW SPIRALS	21	CORE BOX TEMPLATE	45
SOLID CARBIDE SPIRAL BITS		CORE BOX BITS	45
2 FLUTE DOWNCUT BITS	22	BALL END BITS	45
2 FLUTE UPCUT BITS	23	BULL NOSE BITS	46
2 FLUTE DOWNCUT BITS - MD	24	PLUNGE HAND GRIP	46
2 FLUTE DOWNCUT BITS - HD	24	OVAL EDGE (HALF-BULL NOSE)	46
2 FLUTE UPCUT BITS - MD	24	V-GROOVE - 90°	47
2 FLUTE UPCUT BITS - HD	24	V-GROOVE - 120°	47
2 FLUTE DOWNCUT LEFT-HAND	25	V-GROOVE - 60°	47
2 FLUTE UPCUT LEFT-HAND	25	POINT CUTTING ROUNDOVER	47
2 FLUTE DOWNCUT BITS W/ CHIPBEAKERS	25	DOVETAIL	48
2 FLUTE UPCUT BITS W/ CHIPBEAKERS	26	DOVETAIL BITS FOR DODDS® MACHINE	48
3 FLUTE DOWNCUT BITS	26	SOLID CARBIDE DOVETAIL BITS FOR DODDS® MACHINE	49
3 FLUTE UPCUT BITS	26	STAIR TREAD AND BOTTOM CLEANING	49
3 FLUTE DOWNCUT SLOW SPIRAL BITS	27	COVE BITS	49
3 FLUTE UPCUT SLOW SPIRAL BITS	27	RABBET BITS	49
3 FLUTE DOWNCUT BITS W/ CHIPBEAKERS	27	RABBET BIT KITS	50
3 FLUTE UPCUT BITS W/ CHIPBEAKERS	27	SLOTTING - 2 FLUTE	50
3 FLUTE DOWNCUT ROUGHERS	28	SMALL PILOT ROUNDOVER	50
3 FLUTE UPCUT ROUGHERS	28	ROUNDOVER BITS	51
3 FLUTE DOWNCUT SLOW SPIRAL ROUGHERS	29	BEADING BITS	52
3 FLUTE UPCUT SLOW SPIRAL ROUGHERS	29	BORING POINT ROUNDOVER	52
3 FLUTE DEEP POCKET MORTISE UPCUT	29		

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<b>MEDIUM RAISED PANEL</b>	65	<b>3 WING DOOR KNOB DRILLS</b>	87
<b>STILE AND RAIL</b>	65	<b>DOOR KNOB DRILLS</b>	87
<b>DOUBLE STILE AND RAIL</b>	65	<b>LATCH BORE BIT</b>	87
<b>RECESSED DOOR EDGE</b>	66	<b>LATCH BORE BIT WITH THREADED SHANK</b>	87
<b>EUROPEAN DOOR EDGE</b>	66	<b>CARBIDE TIPPED BRAD POINT TWIST DRILLS</b>	87
<b>DRAWER PULL</b>	66	<b>FACE FRAME BITS</b>	88
<b>WINDOW SILL EDGE</b>	66	<b>BRAD POINT AND THROUGH HOLE BITS</b>	
<b>WINDOW SASH BIT</b>	67	<b>BRAD POINT - 57MM OAL</b>	88
<b>PICTURE FRAME</b>	67	<b>BRAD POINT - 70MM OAL</b>	89
<b>POCKET HOLE BITS FOR CASTLE™ MACHINE</b>	68	<b>BRAD POINT - 77MM OAL</b>	89
<b>EURO STEP BITS</b>	68	<b>BRAD POINT - 70MM OAL - 30MM LONG SHANK</b>	90
<b>QUEEN ANNE MOLDING</b>	68	<b>BRAD POINT - 63.5MM OAL WITH 1/4" SHANK</b>	90
<b>PLYWOOD KNOCKOUT</b>	68	<b>V-POINT - 58MM OAL</b>	90
<b>SOLID SURFACE BITS</b>		<b>V POINT - 70MM OAL</b>	91
<b>SOLID SURFACE BOWL BIT</b>	69	<b>V POINT - 77MM OAL</b>	91
<b>SOLID SURFACE BEVEL BIT</b>	69	<b>HINGE BITS - 57MM OAL</b>	92
<b>SOLID SURFACE FLUSH TRIM BIT</b>	69	<b>HINGE BITS - 70MM OAL</b>	92
<b>SOLID SURFACE OVERHANG TRIM BIT</b>	69	<b>SOLID CARBIDE CENTER DRILLS WITH DRILL POINT</b>	92
<b>SOLID SURFACE OVERHANG TRIM BIT</b>	70	<b>SOLID CARBIDE CENTER DRILLS WITH BRAD POINT</b>	93
<b>SOLID SURFACE STAGGERED OVERHANG TRIM BIT</b>	70	<b>DRILL ADAPTERS</b>	93
<b>DRAINBOARD BITS</b>	70	<b>SOLID CARBIDE BORING BITS WITH STEEL SHANK - BRAD POINT</b>	93
<b>SOLID SURFACE NO DRIP BIT</b>	70	<b>SOLID CARBIDE BORING BITS WITH STEEL SHANK - V-POINT</b>	93
<b>SOLID SURFACE UNDER ROUNDING BIT</b>	71	<b>CARBIDE-TIPPED THREADED SHANK DOWEL DRILLS</b>	94
<b>ROUNDOVER BITS WITH DELRIN BEARING</b>	71	<b>CHUCK ADAPTERS WITH THREADED SHANK</b>	94
<b>SOLID SURFACE REPAIR BITS</b>	71	<b>QUICK CHANGE ADAPTER - BIESSE®</b>	95
<b>FACE INLAY BITS</b>	72	<b>CARBIDE-TIPPED COUNTERSINKS</b>	95
<b>SOLID SURFACE 4 WING BOWL REMOVAL BIT</b>	72	<b>CARBIDE-TIPPED COUNTERSINKS</b>	95
<b>COUNTERTOP SURFACE PLANER</b>	72	<b>CARBIDE-TIPPED COUNTERSINK - ADJUSTABLE 45° ANGLE</b>	95

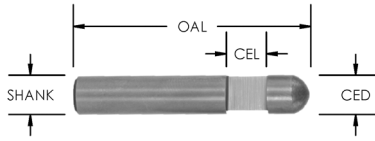


CARBIDE-TIPPED COUNTERBORES	95	GENERAL PURPOSE DRILL, SHORT LENGTH, STYLE 29SLH	109
QUICK CHANGE ADAPTER FOR METRIC DRILLS	95	GENERAL PURPOSE DRILL, LONG LENGTH, STYLE 29T	109
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ADJUSTABLE COUNTERBORE, STYLE NO. 5	96	GENERAL PURPOSE DRILL, LONG LENGTH, FAST SPIRAL, STYLE 29TF	110
ADJUSTABLE COUNTERBORE, STYLE NO. 5A	96	TAPER-POINT DRILL, JOBBER LENGTH, STYLE 29JTP	110
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CARBIDE-TIPPED COUNTERSINK, STYLE NO. 5CT	96	DRILL-POINT 1/2" SHANK DRILL, SILVER & DEMING®	111
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CARBIDE-TIPPED ADJUSTABLE COUNTERBORE, STYLE NO. 514CT	97	SELF CENTERING DRILL GUIDES (Vix® Bits)	113
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VIBRATING MORTISE BIT, STYLE NO. 46HS 2 Flute • Bi-Directional Cutting	97	(VIX® BITS)	113
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THREADED-SHANK BRAD-POINT DRILL, STYLE 14AHS	97	REPLACEMENT GUIDES	113
THREADED-SHANK BRAD-POINT DRILL, STYLE NO. 14BHS	97	(VIX® BITS)	113
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CARBIDE-TIPPED THREADED-SHANK (EXTENDED) BRAD-POINT DRILLS, STYLE NO. 14ESCT	97	FORSTNER® BITS	115
THREADED-SHANK (EXTENDED) BRAD-POINT DRILLS, STYLE NO. 14ESHS	97	SPADE BITS	116
THREADED-SHANK (EXTENDED) BRAD-POINT DRILLS, STYLE NO. 14ESHS-L	97	<b>INSERT BITS</b>	
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THREADED-SHANK BRAD-POINT DRILLS, STYLE NO. 14R	98	2 FLUTE INSERT STRAIGHT BITS	117
CARBIDE-TIPPED ADJUSTABLE COUNTERSINK, STYLE 4CT	98	2 FLUTE INSERT TEMPLATE BITS	117
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BRAD-POINT DRILL, STYLE 8BPHSLH	100	INSERT 3 WING SHAPER - COPE (STILE)	120
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BRAD-POINT DRILL, STYLE NO 19HSL	102	INSERT KNIVES - END ANGLE 2 HOLES (14 CTC)	124
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# SOLID CARBIDE BITS

## FLUSH TRIM BITS

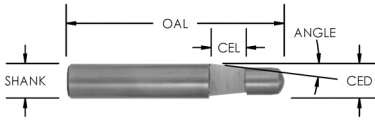


PART #	CED	CEL	SHANK	OAL
SCF200	1/4"	1/4"	1/4"	1-1/2"
SCF200-BLK	1/4"	1/4"	1/4"	1-1/2"
SCF203	1/4"	3/8"	1/4"	1-1/2"
SCF205*	1/4"	3/8"	1/4"	2"
SCF205-25*	1/4"	3/8"	1/4"	2-1/2"

\*Does not have a rounded end

NOTE: Carbide Tipped EASY EDGE BIT (SE2420) on page 43

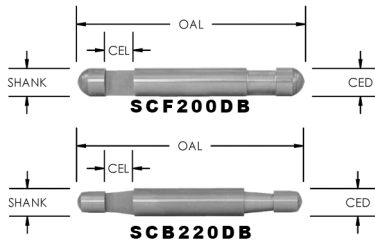
## BEVEL TRIM BITS



PART #	CED	CEL	SHANK	OAL	BEVEL
SCB220	1/4"	1/4"	1/4"	1-1/2"	7 DEG
SCB220-BLK	1/4"	1/4"	1/4"	1-1/2"	7 DEG
SCB220LH*	1/4"	1/4"	1/4"	1-1/2"	7 DEG

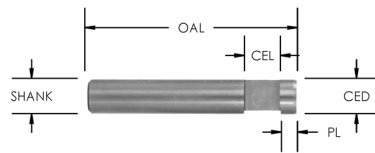
\*Left Hand Rotation

## FLUSH AND BEVEL TRIM BIT (DOUBLE ENDED)



PART #	CED	CEL	SHANK	OAL	ANGLE
SCF200DB	1/4"	1/4"	1/4"	2"	FLUSH
SCB220DB	1/4"	1/4"	1/4"	2"	7 DEG

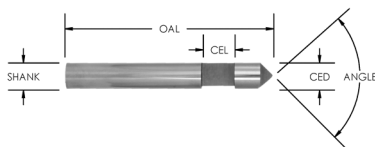
## DADO TRIM BITS



PART #	CED	CEL	SHANK	OAL	ANGLE	PL
SCD210	1/4"	1/4"	1/4"	1-1/2"	FLUSH	1/8"
SCD210-BLK	1/4"	1/4"	1/4"	1-1/2"	FLUSH	1/8"
SCD215	1/4"	1/4"	1/4"	1-1/2"	7 DEG	1/8"

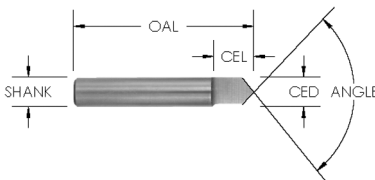
Small Pilot for Shallow Dado

## HOLE AND FLUSH TRIM BITS



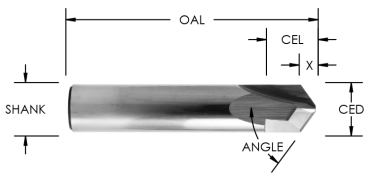
PART #	CED	CEL	SHANK	OAL
SCHF240	1/4"	5/16"	1/4"	2"
SCHF242	1/4"	3/8"	1/4"	1-1/2"
SCHF244	1/4"	1/4"	1/4"	1-1/2"

## V-GROOVING BITS



PART #	CED	CEL	SHANK	OAL	ANGLE
SCVG260	1/4"	1/8"	1/4"	1-1/2"	90°
SCVG264	1/4"	7/32"	1/4"	1-1/2"	60°
SCVG264-212	1/4"	7/32"	1/4"	2-1/2"	60°

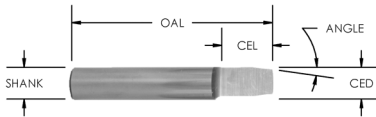
## SOLID CARBIDE V-POINT BITS



PART #	CED	CEL	SHANK	OAL	ANGLE	X
SCVG322	1/4"	1/2"	1/4"	3"	60°	.217
SCVG325	1/4"	1/2"	1/4"	3"	90°	.125
SCVG352	1/2"	5/8"	1/2"	3"	60°	.432
SCVG355	1/2"	5/8"	1/2"	3"	90°	.250
SCVG455F*	1/2"	5/8"	1/2"	3"	90°	.203

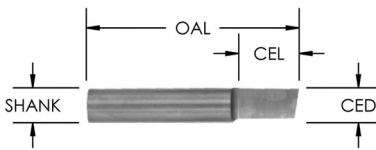
\*has a .090 flat end

## FLUSH AND BEVEL TRIM BITS



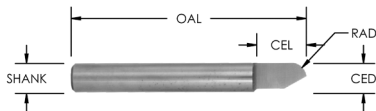
PART #	CED	CEL	SHANK	OAL	ANGLE
SCFB230	1/4"	3/8"	1/4"	1-1/2"	7 DEG

## RIP AND SLOTTING BITS



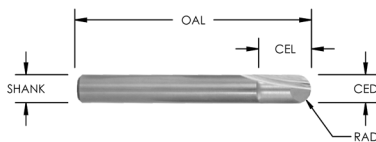
PART #	CED	CEL	SHANK	OAL
SCRS250	1/4"	3/8"	1/4"	1-1/2"

## ROUND BOTTOM VEINING BITS (1 FLUTE)



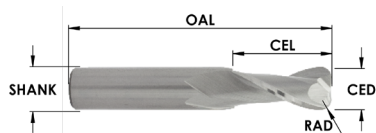
PART #	CED	CEL	SHANK	OAL	RAD
SCRV271	1/8"	1/4"	1/4"	1-1/2"	1/16"
SCRV273	1/4"	1/4"	1/4"	2"	1/8"

## ROUND BOTTOM VEINING BITS (2 FLUTE)



PART #	CED	CEL	SHANK	OAL	RAD
SCRV275	1/8"	5/16"	1/4"	2"	1/16"
SCRV277	3/16"	3/8"	1/4"	2"	3/32"
SCRV279	1/4"	3/8"	1/4"	2"	1/8"

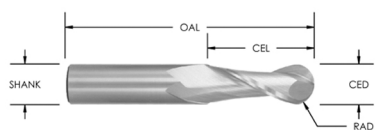
## COVE NOSE SPIRAL BIT (2 FLUTE)



PART #	CED	CEL	SHANK	OAL	RADIUS
SCN118	1/4"	3/4"	1/4"	3"	1/16"
SCN135	3/8"	1"	3/8"	3"	3/32"
SCN155	1/2"	1-1/4"	1/2"	3"	1/8"

## 2 FLUTE UPCUT BALL NOSE

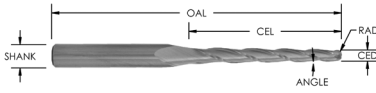
Two flute spiral upcut ball nose. Used for round bottom cuts, carving, fluting and 3D modeling. Used for natural wood, aluminum, wood composites and solid surface.



PART #	CED	CEL	SHANK	OAL	RAD
SBNU125	1/8"	1/2"	1/4"	2"	1/16"
SBNU316	3/16"	3/4"	1/4"	2-1/2"	3/32"
SBNU250	1/4"	3/4"	1/4"	2-1/2"	1/8"
SBNU375	3/8"	1"	3/8"	3"	3/16"
SBNU500	1/2"	1-1/4"	1/2"	3"	1/4"
SBNU750	3/4"	2"	3/4"	4"	3/8"

## TAPERED BALL NOSE - UPCUT

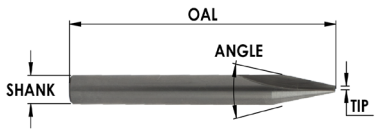
Tapered ball nose upcut spirals. Used for round bottom cuts, carving, fluting and 3D modeling. Used for natural wood, plastic and aluminum.



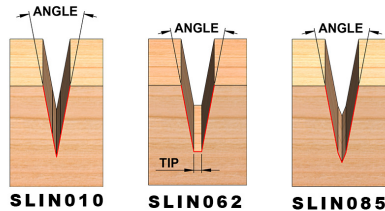
PART #	CED	CEL	SHANK	OAL	RAD	DEG	FLUTES
STBNU116-3	1/16"	3/4"	1/4"	3"	1/32"	3 deg.	2
STBNU116-55	1/16"	3/4"	1/4"	2-1/2"	1/32"	5.5 deg.	2
STBNU125-1	1/8"	1-1/2"	1/4"	3"	1/16"	1 deg.	3
STBNU125-3	1/8"	1"	1/4"	3"	1/16"	3 deg.	3
STBNU125-5	1/8"	3/4"	1/4"	3"	1/16"	5 deg.	3
STBNU125-7	1/8"	1/2"	1/4"	3"	1/16"	7 deg.	3
STBNU250-3	1/4"	2"	1/2"	4"	1/8"	3 deg.	2
STBNU250-5	1/4"	1-3/8"	1/2"	4"	1/8"	5 deg.	2
STBNU250-7	1/4"	1"	1/2"	4"	1/8"	7 deg.	2

*Great for 2D and 3D Carving*

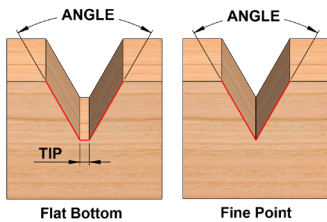
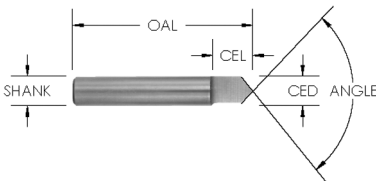
## LINER BITS



PART #	INCLUDED ANGLE	TIP FLAT	CEL	SHANK	OAL	FLUTES
SLIN010	22	FINE POINT	5/8"	1/4"	2"	1
SLIN062	22	1/16	1/2"	1/4"	2-1/2"	1
SLIN085	15	1/16	11/16"	1/4"	2-1/2"	1

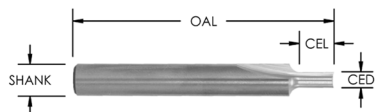


## ENGRAVING BITS



PART #	INCLUDED ANGLE	TIP FLAT	SHANK	OAL
SN305	30	0.005	1/4"	2"
SN310	30	0.010	1/4"	2"
SN320	30	0.020	1/4"	2"
SN330	30	0.030	1/4"	2"
SN340	30	0.040	1/4"	2"
SN360	30	0.060	1/4"	2"
SN390	30	0.090	1/4"	2"
SN605	60	0.005	1/4"	2"
SN610	60	0.010	1/4"	2"
SN620	60	0.020	1/4"	2"
SN630	60	0.030	1/4"	2"
SN640	60	0.040	1/4"	2"
SN660	60	0.060	1/4"	2"
SN690	60	0.090	1/4"	2"

## FLAT BOTTOM VEINING BITS (2 FLUTE)

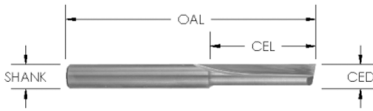


PART #	CED	CEL	SHANK	OAL
SST195	3/32"	5/16"	1/4"	1-1/2"
SST198	1/8"	1/4"	1/4"	2"



## STRAIGHT BIT - 1 FLUTE (GENERAL PURPOSE APPLICATION)

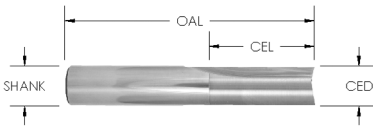
1 Flute flute straight bits designed to cut a variety of materials. Usage: natural wood and wood composites.



PART #	CED	CEL	SHANK	OAL
SST100	1/16"	1/4"	1/4"	1-1/2"
SST110	1/8"	3/8"	1/4"	1-1/2"
SST120	1/4"	3/4"	1/4"	2"
SST130	1/4"	1"	1/4"	2-1/2"

## STRAIGHT BIT - 2 FLUTE (GENERAL PURPOSE APPLICATION)

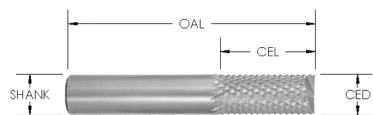
2 flute straight bits designed to cut a variety of materials. Usage: natural wood and wood composites.



PART #	CED	CEL	SHANK	OAL
SST203-18	1/8"	1/2"	1/8"	1-1/2"
SST195	3/32"	5/16"	1/4"	1-1/2"
SST198	1/8"	1/4"	1/4"	2"
SST200	1/8"	3/8"	1/4"	2"
SST203	1/8"	3/8"	1/4"	1-1/2"
SST205	5/32"	3/8"	1/4"	2"
SST207	5/32"	3/8"	1/4"	1-1/2"
SST210	3/16"	1/2"	1/4"	2"
SST213	3/16"	1/2"	1/4"	1-1/2"
SST214	3/16"	5/8"	1/4"	2"
SST215	7/32"	3/4"	1/4"	2"
SST220	1/4"	3/4"	1/4"	2"
SST223	1/4"	3/4"	1/4"	2-1/2"
SST225	1/4"	1"	1/4"	2-1/2"
SST230	1/4"	1"	1/4"	3"
SST235	5/16"	1"	5/16"	2-1/2"
SST240	3/8"	1"	3/8"	2-1/2"
SST241	3/8"	1"	3/8"	3"
SST245	3/8"	1-1/4"	3/8"	3"
SST250	1/4"	3/4"	1/2"	3"
SST255	5/16"	1"	1/2"	3"
SST260	3/8"	1"	1/2"	3"
SST265	1/2"	1-1/8"	1/2"	3"
SST270	1/2"	1-1/4"	1/2"	3"
SST275	1/2"	1-5/8"	1/2"	3-1/2"
SST280	1/2"	2"	1/2"	4"

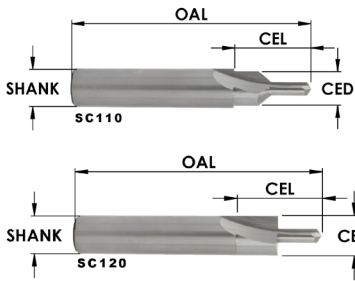
*For Plastics and Wood*

## SOLID CARBIDE FIBERGLASS BITS



PART #	CED	CEL	SHANK	OAL	DESCRIPTION
SCFB100	1/4"	3/4"	1/4"	2-1/2"	End Mill End
SCFB110	1/4"	3/4"	1/4"	2-1/2"	Plunge V Pt End
SCFB120	3/8"	7/8"	3/8"	2-1/2"	End Mill End
SCFB130	3/8"	7/8"	3/8"	2-1/2"	Plunge V Pt End
SCFB140	1/2"	1"	1/2"	3"	End Mill End
SCFB150	1/2"	1"	1/2"	3"	Plunge V Pt End

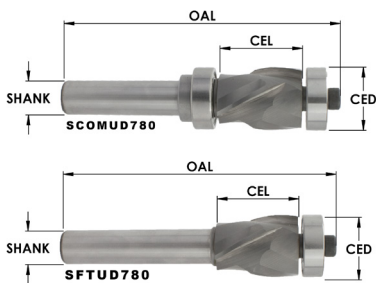
## SOLID CARBIDE WOOD SCREW SLOT BITS



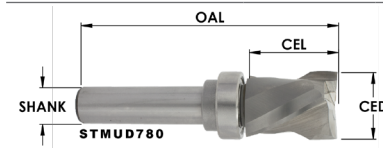
PART #	CED	CEL	SHANK	OAL	USE
SC110*	7/16"	15/16"	1/2"	3"	#8 Bugle-Head Round Wood Screws
SC120	1/2"	15/16"	1/2"	3"	#8 Washer Round Wood Screws

*11/64" Center Point Diameter  
\*82° Included Countersink*

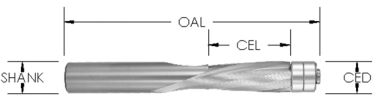
## FLUSH TRIM BITS (2+2 COMPRESSION)



PART #	CED	CEL	SHANK	OAL	BEARING
SFTUD780	7/8"	1-1/8"	1/2"	3-15/16"	SBE124
STMUD780	7/8"	1-1/8"	1/2"	3-3/8"	SBE129
SCOMUD780	7/8"	1-1/8"	1/2"	3-15/16"	SBE124, SBE129

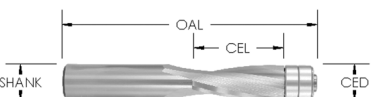


## 2 FLUTE FLUSH TRIM DOWNCUT BIT



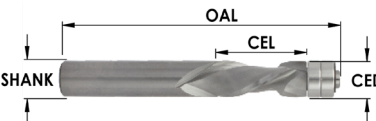
PART #	CED	CEL	SHANK	OAL	BEARING	CLIP
SFTD220	1/4"	1"	1/4"	3"	SBE100	SE-E25
SFTD255	1/2"	1-1/4"	1/2"	4"	SBE145	SE-E12
SFTD265	1/2"	2"	1/2"	4-1/2"	SBE145	SE-E12

## 2 FLUTE FLUSH TRIM UPCUT BIT



PART #	CED	CEL	SHANK	OAL	BEARING	CLIP
SFTU120	1/4"	1"	1/4"	3"	SBE100	SE-E25
SFTU155	1/2"	1-1/4"	1/2"	3-1/2"	SBE145	SE-E12
SFTU165	1/2"	2"	1/2"	4-1/2"	SBE145	SE-E12

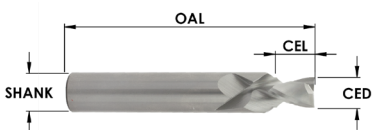
## 2 FLUTE FLUSH TRIM COMPRESSION BIT



PART #	CED	CEL	SHANK	OAL	UPCUT	BEARING	CLIP
SFTUD555	1/2"	1-1/4"	1/2"	4"	3/8"	SBE145	SE-E12

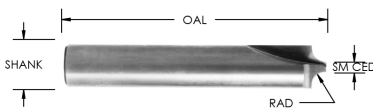
## CHAMFER 2+2 COMPRESSION BITS

Chamfer 2+2 compression bits with extra length upcut to enhance chip evacuation while simultaneously chamfering top edge of the material. MD series is extended life and HD series is max life.



PART #	CED	CEL	SHANK	OAL
CMDUD350	3/8"	1/2"	1/2"	3"
CMDUD375	3/8"	3/4"	1/2"	3"
CHDUD8350	3/8"	1/2"	1/2"	3"
CHDUD8375	3/8"	3/4"	1/2"	3"

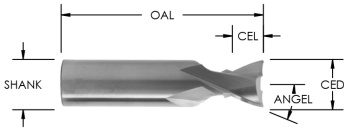
## SOLID CARBIDE BEADING BITS



PART #	SM CED	RADIUS	SHANK	OAL
SBB120	.110"	1/8"	1/2"	3"
SBB220	.110"	3/16"	1/2"	3"
SBB320	.110"	1/4"	1/2"	3"

## 2 FLUTE SOLID CARBIDE UPCUT DOVETAIL BIT

These solid carbide dovetails are designed for OMEC dovetail machines.

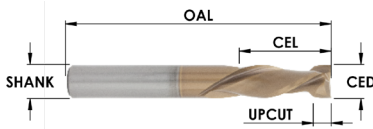


PART #	CED	CEL	SHANK	OAL	ANGLE
SCDT1014 <i>with Flat</i>	14MM	10MM	14MM	60MM	10°

## SOLID CARBIDE MOAB-COATINGS

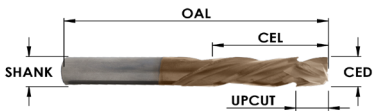
Coated tooling: coatings further extends tool life by reducing damaging effects of heat and oxidation that occurs during cutting operations. Highly recommended for MDF, chipboard with melamine, laminates, veneered plywood, and many plastics .

### 2+2 COMPRESSION MD SERIES MOAB-PLUS COATING



PART #	CED	CEL	SHANK	OAL	UPCUT
HMDUD445	1/4"	7/8"	1/4"	2-1/2"	1/4"
HMDUD539	3/8"	7/8"	3/8"	3"	3/16"
HMDUD551-1	3/8"	1"	3/8"	3"	3/16"
HMDUD551	3/8"	1-1/4"	3/8"	3"	3/16"
HMDUD550	3/8"	1-1/4"	3/8"	3"	3/8"
HMDUD554	1/2"	1-1/8"	1/2"	3"	5/16"
HMDUD555	1/2"	1-1/4"	1/2"	3"	5/16"
HMDUD557	1/2"	1-1/4"	1/2"	3"	3/16"
HMDUD558	1/2"	1-1/4"	1/2"	3"	1/2"
HMDUD565	1/2"	1-5/8"	1/2"	3-1/2"	5/16"
HMDUD566	1/2"	1-5/8"	1/2"	3-1/2"	5/8"

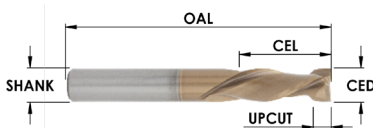
### 3+3 COMPRESSION MD SERIES MOAB-PLUS COATING



PART #	CED	CEL	SHANK	OAL	UPCUT
HMDUD751*	3/8"	7/8"	3/8"	3"	3/16"
HMDUD751A	3/8"	7/8"	3/8"	3"	3/8"
HMDUD756*	3/8"	1-1/4"	3/8"	3"	3/16"
HMDUD750	3/8"	1-1/4"	3/8"	3"	3/8"
HMDUD755	1/2"	1-1/4"	1/2"	3"	3/8"
HMDUD795	1/2"	1-5/8"	1/2"	3-1/2"	5/8"

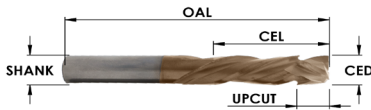
\*3/16" Upcut for Mortise Cuts

### 2+2 COMPRESSION HD SERIES MOAB-PLUS COATING



PART #	CED	CEL	SHANK	OAL	UPCUT
HHUD539	3/8"	7/8"	3/8"	3"	3/16"
HHUD545	3/8"	1"	3/8"	3"	3/16"
HHUD551	3/8"	1-1/4"	3/8"	3"	3/16"
HHUD550	3/8"	1-1/4"	3/8"	3"	3/8"
HHUD555	1/2"	1-1/4"	1/2"	3"	5/16"
HHUD558	1/2"	1-1/4"	1/2"	3"	1/2"
HHUD565	1/2"	1-5/8"	1/2"	3-1/2"	5/16"
HHUD566	1/2"	1-5/8"	1/2"	3-1/2"	5/8"

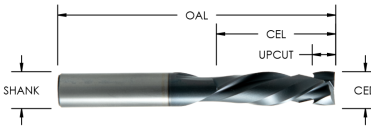
## 3+3 COMPRESSION HD SERIES MOAB-PLUS COATING



PART #	CED	CEL	SHANK	OAL	UPCUT
HHDUD751	3/8"	1-1/4"	3/8"	3"	3/16"
HHDUD750	3/8"	1-1/4"	3/8"	3"	3/8"
HHDUD754	1/2"	1-1/4"	1/2"	3"	3/16"
HHDUD758	1/2"	1-1/4"	1/2"	3"	1/2"
HHDUD766	1/2"	1-5/8"	1/2"	3-1/2"	5/8"

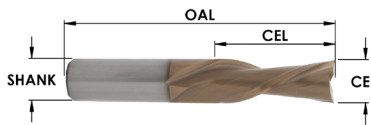
## 2+2 COMPRESSIONS - HD MAX - MOAB-PLUS COATING

Two flute compression spiral used to improve the finish of upper and lower material edges. This "MAX" series gives superior performance over other standard compressions on the market. It allows for better chip evacuation.



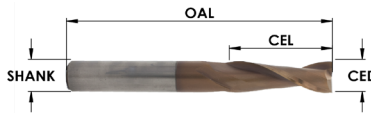
PART #	CED	CEL	SHANK	OAL	UPCUT
CHDUD539MAX	3/8"	7/8"	3/8"	3"	3/16"
CHDUD547MAX	3/8"	1-1/8"	3/8"	3"	1/2"
CHDUD551MAX	3/8"	1-1/4"	3/8"	3"	3/16"
CHDUD550MAX	3/8"	1-1/4"	3/8"	3"	3/8"
CHDUD555MAX	1/2"	1-1/4"	1/2"	3"	5/16"
CHDUD558MAX	1/2"	1-1/4"	1/2"	3"	1/2"
CHDUD559MAX	1/2"	1-3/8"	1/2"	3-1/2"	3/16"

## 2 FLUTE SPIRAL DOWNCUT MD SERIES MOAB-PLUS COATING



PART #	CED	CEL	SHANK	OAL
HRD202MD	1/8"	1/2"	1/4"	2"
HRD218MD	1/4"	3/4"	1/4"	2-1/2"
HRD220MD	1/4"	1"	1/4"	2-1/2"
HRD237MD	3/8"	1-1/4"	3/8"	3"
HRD255MD	1/2"	1-1/4"	1/2"	3"
HRD260MD	1/2"	1-5/8"	1/2"	3-1/2"

## 2 FLUTE SPIRAL UPCUT MD SERIES MOAB-PLUS COATING



PART #	CED	CEL	SHANK	OAL
HRU103MD	1/8"	1/2"	1/4"	2"
HRU114MD	1/4"	3/4"	1/4"	2-1/2"
HRU120MD	1/4"	1"	1/4"	2-1/2"
HRU137MD	3/8"	1-1/4"	3/8"	3"
HRU155MD	1/2"	1-1/4"	1/2"	3"
HRU160MD	1/2"	1-5/8"	1/2"	3-1/2"

## DIAMOND TIPPED BITS

### DIAMOND-TIPPED ROUTER BITS • PCD (1+1 DESIGN)

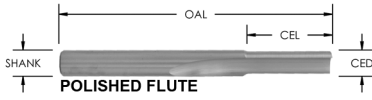


PART #	CED	CEL	SHANK	OAL
SE280003	3/8"	5/8"	1/2"	3"
SE280004	3/8"	1"	1/2"	2-3/4"
SE280009	1/2"	1"	1/2"	3"
SE280009A	1/2"	1-1/4"	1/2"	3-1/2"
SE280010	1/2"	1-3/8"	1/2"	3-1/4"
SE280012	5/8"	1"	5/8"	3-1/2"
SE280014	5/8"	1-5/8"	5/8"	4"
SE280018	3/4"	1"	3/4"	3-3/8"
SE280020	3/4"	1-3/8"	3/4"	3-3/4"
SE280011	3/4"	1-5/8"	3/4"	4"
SE280024	3/4"	2"	3/4"	4-1/2"

## SOLID CARBIDE PLASTIC BITS

### O FLUTE STRAIGHT BIT - 1 FLUTE (POLISHED) - LEFT-HAND

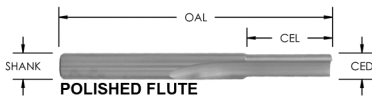
Polished 1 Flute "O" flute straight tools produce curled chips to enhance evacuation and minimize chips welding to the the cutting edge of the tool. Use when upcut or downcut forces are not required. Used for routing hard and soft plastic material.



PART #	CED	CEL	SHANK	OAL
SPL100LH	1/8"	3/8"	1/4"	2-1/2"
SPL105LH	5/32"	1/2"	1/4"	2-1/2"
SPL110LH	3/16"	1/2"	1/4"	2-1/2"
SPL120LH	1/4"	3/4"	1/4"	2-1/2"

### O FLUTE STRAIGHT BIT - 1 FLUTE (POLISHED)

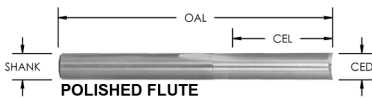
Polished 1 Flute "O" flute straight tools produce curled chips to enhance evacuation and minimize chips welding to the the cutting edge of the tool. Use when upcut or downcut forces are not required. Used for routing hard and soft plastic.



PART #	CED	CEL	SHANK	OAL
SPL100	1/8"	3/8"	1/4"	2-1/2"
SPL102	1/8"	1/2"	1/4"	2"
SPL103	1/8"	5/8"	1/4"	4"
SPL105	5/32"	1/2"	1/4"	2-1/2"
SPL110	3/16"	1/2"	1/4"	2-1/2"
SPL111	3/16"	5/8"	1/4"	2"
SPL113	3/16"	1"	1/4"	4"
SPL115	7/32"	5/8"	1/4"	2-1/2"
SPL120	1/4"	3/4"	1/4"	2-1/2"
SPL125	1/4"	1"	1/4"	3-1/2"
SPL128	1/4"	1-1/4"	1/4"	4"
SPL130	3/8"	1"	3/8"	3"
SPL134	3/8"	1-5/8"	3/8"	6"
SPL140	1/2"	1"	1/2"	3"
SPL148	1/2"	2-1/8"	1/2"	6"

### O FLUTE STRAIGHT BIT - 2 FLUTE (POLISHED)

Polished two Flute "O" flute straight tools produce curled chips to enhance chip evacuation and minimize chips welding to the the cutting edge of the tool for a smooth finish. Use when upcut or downcut forces are not required. Used for routing hard and soft plastic.

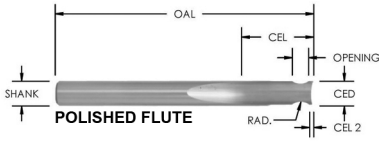


PART #	CED	CEL	SHANK	OAL
SPL210	1/8"	1/2"	1/4"	2"
SPL212	1/8"	5/8"	1/4"	4"
SPL212-312	1/8"	5/8"	1/4"	3-1/2"
SPL213	5/32"	1/2"	1/4"	2-1/2"
SPL215	3/16"	3/8"	1/4"	2"
SPL216	3/16"	5/8"	1/4"	2"
SPL217	3/16"	1"	1/4"	4"
SPL220	1/4"	1"	1/4"	2-1/2"
SPL222	1/4"	1"	1/4"	3-1/2"
SPL223	1/4"	1-1/4"	1/4"	4"
SPL225	3/8"	7/8"	3/8"	2-1/2"
SPL227	3/8"	1"	3/8"	4"
SPL230	1/2"	1"	1/2"	3"
SPL232	1/2"	1"	1/2"	4"



## O FLUTE ROUNDING EDGE STRAIGHT FLUTE 1 FLUTE (POLISHED)

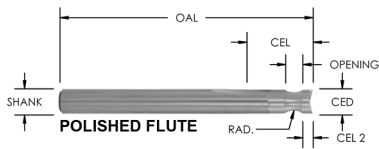
Polished straight 1 Flute edge "O" flute rounding edge design. Recommended for hard plastic, soft plastic and solid surface materials.



PART #	CED	CEL	SHANK	OAL	RAD	OPENING	CEL 2	MATERIAL
SPR200	1/4"	3/8"	1/4"	2-1/2"	1/8"	5/32"	1/8"	.195
SPR210	1/4"	3/8"	1/4"	2-1/2"	3/16"	7/32"	3/16"	.180
SPR220	1/4"	3/8"	1/4"	2-1/2"	1/4"	9/32"	1/4"	.163

## O FLUTE ROUNDING EDGE STRAIGHT FLUTE 2 FLUTE (POLISHED)

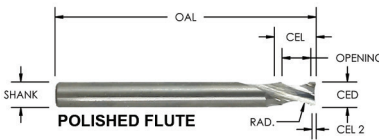
Polished straight two edge "O" flute rounding edge design. The two flute improves edge finish. Recommended for hard plastic, soft plastic and solid surface materials.



PART #	CED	CEL	SHANK	OAL	RAD	OPENING	CEL 2	MATERIAL
SPR300	1/4"	3/8"	1/4"	2-1/2"	1/8"	5/32"	1/8"	.195
SPR310	1/4"	3/8"	1/4"	2-1/2"	3/16"	7/32"	3/16"	.180
SPR320	1/4"	3/8"	1/4"	2-1/2"	1/4"	9/32"	1/4"	.163

## O FLUTE ROUNDING EDGE SPIRAL BIT - 1 FLUTE (POLISHED)

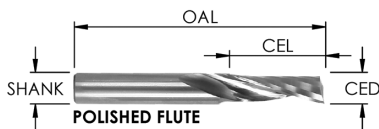
Polished spiral 1 Flute edge upcut "O" flute rounding edge tools produce curled chips to enhance evacuation. The spiral cut improves edge finish. Recommended for hard plastic, soft plastic and solid surface materials.



PART #	CED	CEL	SHANK	OAL	RAD	OPENING	CEL 2	MATERIAL
SPR400	1/4"	3/8"	1/4"	2-1/2"	1/8"	5/32"	1/8"	.195
SPR410	1/4"	3/8"	1/4"	2-1/2"	3/16"	7/32"	3/16"	.180
SPR420	1/4"	3/8"	1/4"	2-1/2"	1/4"	9/32"	1/4"	.163

## O FLUTE UPCUT - 1 FLUTE (POLISHED) - HARD PLASTIC

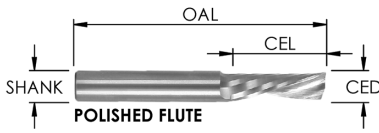
Polished 1 Flute "O" flute spiral upcut tools to enhance evacuation and minimize chips welding to the cutting edge of the tool while improving surface finish. The end grinds improve bottom cut finishes. Recommended for cutting hard plastic, and solid surface.



PART #	CED	CEL	SHANK	OAL
SOU300A	1/8"	1/4"	1/8"	2"
SOU300B	1/8"	1/2"	1/8"	2"
SOU300	1/8"	1/4"	1/4"	2"
SOU302	1/8"	1/2"	1/4"	2"
SOU303	1/8"	3/4"	1/4"	2-1/2"
SOU311	3/16"	3/8"	1/4"	2"
SOU313	3/16"	5/8"	1/4"	2"
SOU315	7/32"	3/4"	1/4"	2-1/2"
SOU320	1/4"	3/8"	1/4"	2"
SOU323	1/4"	3/4"	1/4"	2-1/2"
SOU326	1/4"	1-1/4"	1/4"	3"
SOU323B	1/4"	1-1/2"	1/4"	3"
SOU332	3/8"	5/8"	3/8"	2-1/2"
SOU335	3/8"	1-1/8"	3/8"	3"
SOU338	3/8"	1-5/8"	3/8"	3-1/2"
SOU345	1/2"	1-5/8"	1/2"	3-1/2"

## O FLUTE DOWNCUT - 1 FLUTE (POLISHED) - HARD PLASTIC

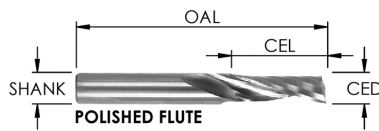
Polished 1 Flute "O" flute spiral downcut tools to enhance evacuation and minimize chips welding to the cutting edge of the tool. The downcut force improves part hold down. The end grinds improve bottom cut finishes. Recommended for cutting hard plastic and solid surface.



PART #	CED	CEL	SHANK	OAL
SOD402	1/8"	1/2"	1/4"	2"
SOD413	3/16"	5/8"	1/4"	2"
SOD423	1/4"	3/4"	1/4"	2-1/2"
SOD426	1/4"	1-1/4"	1/4"	3"
SOD435	3/8"	1-1/8"	3/8"	3"
SOD445	1/2"	1-5/8"	1/2"	3-1/2"

## O FLUTE UPCUT - 1 FLUTE (POLISHED) - SOFT PLASTIC

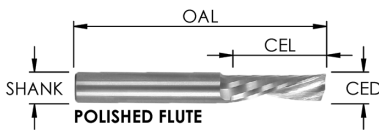
Polished 1 Flute "O" flute spiral upcut tools produce curled chips to enhance evacuation and minimize chips welding to the cutting edge of the tool while improving surface finish. The end grinds improve bottom cut finishes. Recommended for cutting soft plastic, hard plastic, aluminum and solid surface.



PART #	CED	CEL	SHANK	OAL
SOU490	1/16"	1/4"	1/4"	2"
SOU500A	1/8"	1/4"	1/8"	2"
SOU500B	1/8"	1/2"	1/8"	2"
SOU500	1/8"	1/4"	1/4"	2"
SOU502	1/8"	1/2"	1/4"	2"
SOU503	1/8"	3/4"	1/4"	2-1/2"
SOU511	3/16"	3/8"	1/4"	2"
SOU513	3/16"	5/8"	1/4"	2"
SOU520	1/4"	3/8"	1/4"	2"
SOU523	1/4"	3/4"	1/4"	2-1/2"
SOU524	1/4"	1"	1/4"	2-1/2"
SOU526	1/4"	1-1/4"	1/4"	3"
SOU527	1/4"	1-1/2"	1/4"	3"
SOU532	3/8"	5/8"	3/8"	2-1/2"
SOU535	3/8"	1-1/8"	3/8"	3"
SOU538	3/8"	1-5/8"	3/8"	3-1/2"
SOU545	1/2"	1-5/8"	1/2"	3-1/2"

## O FLUTE DOWNCUT - 1 FLUTE (POLISHED) - SOFT PLASTIC

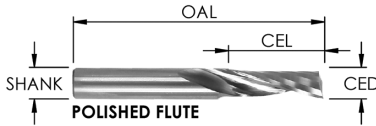
Polished 1 Flute "O" flute spiral downcut tools produce curled chips to enhance evacuation and minimize chips welding to the cutting edge of the tool while improving surface finish. The end grinds improve bottom cut finishes. Recommended for cutting soft plastic, hard plastic, aluminum and solid surface.



PART #	CED	CEL	SHANK	OAL
SOD602	1/8"	1/2"	1/4"	2"
SOD613	3/16"	5/8"	1/4"	2"
SOD623	1/4"	3/4"	1/4"	2-1/2"
SOD626	1/4"	1-1/4"	1/4"	3"
SOD635	3/8"	1-1/8"	3/8"	3"
SOD645	1/2"	1-5/8"	1/2"	3-1/2"

## O FLUTE UPCUT - 1 FLUTE (POLISHED) FOR ACRYLIC

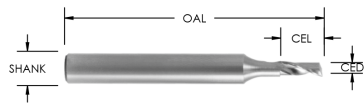
Polished 1 Flute "O" flute upcut spiral specifically designed for acrylic.



PART #	CED	CEL	SHANK	OAL
SOUA500	1/8"	1/4"	1/8"	2"
SOUA502	1/8"	1/2"	1/8"	2"
SOUA513	3/16"	5/8"	1/4"	2"
SOUA520	1/4"	3/8"	1/4"	2"
SOUA523	1/4"	3/4"	1/4"	2-1/2"

## O FLUTE UPCUT - 1 FLUTE (POLISHED) FOR ALUMINUM

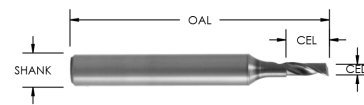
Polished 1 Flute "O" flute upcut spiral specifically designed for aluminum.



PART #	CED	CEL	SHANK	OAL
SOUAL500	1/8"	1/4"	1/4"	2"
SOUAL502	1/8"	1/2"	1/4"	2"
SOUAL511	3/16"	3/8"	1/4"	2"
SOUAL513	3/16"	5/8"	1/4"	2"
SOUAL520	1/4"	3/8"	1/4"	2"
SOUAL523	1/4"	3/4"	1/4"	2-1/2"

## O FLUTE UPCUT - 1 FLUTE (POLISHED) FOR ALUMINUM - COATED

Polished 1 Flute "O" flute upcut spiral specifically designed for aluminum. The tool is coated to extend the life of the tool and to improve the performance of the tool.

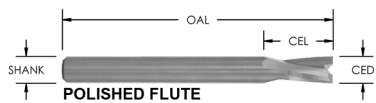


Coated Bit

PART #	CED	CEL	SHANK	OAL
DOUAL500	1/8"	1/4"	1/4"	2"
DOUAL502	1/8"	1/2"	1/4"	2"
DOUAL511	3/16"	3/8"	1/4"	2"
DOUAL513	3/16"	5/8"	1/4"	2"
DOUAL520	1/4"	3/8"	1/4"	2"
DOUAL523	1/4"	3/4"	1/4"	2-1/2"

## O FLUTE LOW HELIX UPCUT SPIRAL, 2 FLUTE

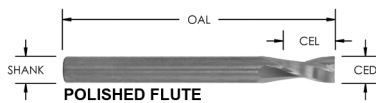
2 flute upcut low helix spiral "O" flute. Upward chip removal. Recommended for hard plastic, soft plastic and solid surface.



PART #	CED	CEL	SHANK	OAL
SOU720	1/4"	3/8"	1/4"	2-1/2"
SOU724	1/4"	3/4"	1/4"	2-1/2"
SOU734	3/8"	1"	3/8"	3"
SOU742	1/2"	1-1/8"	1/2"	3-1/2"
SOU745	1/2"	1-5/8"	1/2"	3-1/2"
SOU748	1/2"	2-1/8"	1/2"	4-1/2"

## O FLUTE HIGH HELIX UPCUT SPIRAL, 2 FLUTE

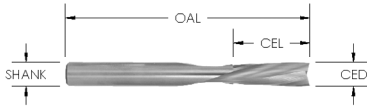
2 flute upcut high helix spiral "O" flute. Evacuates chip upward. Recommended for cutting soft plastic.



PART #	CED	CEL	SHANK	OAL
SOU920	1/4"	3/8"	1/4"	2-1/2"
SOU926	1/4"	1-1/4"	1/4"	3"
SOU934	3/8"	1"	3/8"	3"
SOU937	3/8"	1-1/2"	3/8"	4"
SOU943	1/2"	1-1/4"	1/2"	4"
SOU948	1/2"	2-1/8"	1/2"	4"

## O FLUTE SLOW SPIRALS

2 flute low helix "O" flute used to achieve smooth finishes in plastic. Recommended for soft plastic, hard plastic and solid surface. General purpose applications.



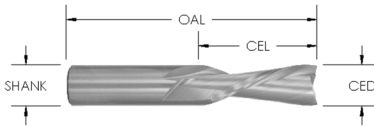
PART #	CED	CEL	SHANK	OAL	
SOD823	1/4"	3/4"	1/4"	2-1/2"	DOWNCUT
SOU723	1/4"	3/4"	1/4"	2-1/2"	UPCUT



# SOLID CARBIDE SPIRAL BITS

## 2 FLUTE DOWNCUT BITS

Two flute downcut spiral tools leave a smooth top edge cut. Downcut forces assist holding down material during use. General purpose applications. Recommended for solid surface, wood composites and natural wood.



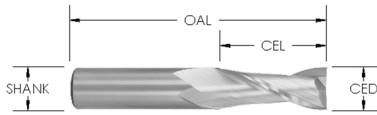
PART #	CED	CEL	SHANK	OAL
SRD200	1/16"	3/16"	1/8"	1-1/2"
SRD200A	1/16"	5/16"	1/8"	1-1/2"
SRD201	1/8"	1/2"	1/8"	1-1/2"
SRD202	3/32"	1/2"	1/4"	2"
SRD203	1/8"	1/2"	1/4"	2"
SRD203-34	1/8"	3/4"	1/4"	2-1/2"
SRD204	1/8"	7/8"	1/4"	2-1/2"
SRD205	5/32"	3/4"	1/4"	2"
SRD210	3/16"	3/4"	1/4"	2"
SRD212	3/16"	7/8"	1/4"	2-1/2"
SRD213	5MM	3/4"	1/4"	2"
SRD215	7/32"	3/4"	1/4"	2"
SRD216	6MM	13MM	6MM	64MM
SRD217	6MM	7/8"	1/4"	2-1/2"
SRD218	1/4"	3/4"	1/4"	2-1/2"
SRD220	1/4"	1"	1/4"	2-1/2"
SRD221*	1/4"	1"	1/2"	3-3/8"
SRD223	1/4"	1-1/4"	1/4"	3"
SRD223A	1/4"	1-1/2"	1/4"	3-1/2"
SRD223B	7MM	1"	1/2"	3"
SRD224A	9/32"	1"	5/16"	2-1/2"
SRD224B	9/32"	1"	3/8"	2-1/2"
SRD224	9/32"	1"	1/2"	3"
SRD225	5/16"	1"	5/16"	3"
SRD227	5/16"	1-1/8"	5/16"	3"
SRD230	5/16"	1"	1/2"	3"
SRD233	8MM	25MM	8MM	65MM
SRD235	3/8"	1"	3/8"	3"
SRD237	3/8"	1-1/4"	3/8"	3"
SRD240	3/8"	2"	3/8"	4"
SRD245	3/8"	1-1/4"	1/2"	3"
SRD247	10MM	35MM	10MM	76MM
SRD250A	7/16"	1"	1/2"	3"
SRD250	7/16"	1-1/4"	1/2"	3"
SRD252	12MM	35MM	12MM	76MM
SRD253	1/2"	1"	1/2"	3"
SRD255	1/2"	1-1/4"	1/2"	3"
SRD258	1/2"	1-1/2"	1/2"	3-1/2"
SRD260	1/2"	1-5/8"	1/2"	3-1/2"
SRD263	1/2"	1-3/4"	1/2"	4"
SRD265	1/2"	2"	1/2"	4"
SRD267	1/2"	2-1/8"	1/2"	4"
SRD268	1/2"	2-1/2"	1/2"	5"
SRD269	17/32"	1-1/4"	1/2"	3-1/2"
SRD270	9/16"	1-1/4"	1/2"	3-1/2"
SRD275	5/8"	1-1/2"	5/8"	3-1/2"
SRD280	5/8"	2"	5/8"	4"
SRD285	3/4"	1-1/2"	3/4"	4"
SRD290	3/4"	2"	3/4"	4"
SRD291	3/4"	2-1/8"	3/4"	4"
SRD292	3/4"	2-1/2"	3/4"	5"
SRD293	3/4"	3"	3/4"	6"
SRD295	3/4"	3-1/4"	3/4"	6"
SRD297	3/4"	3-1/2"	3/4"	6"

\* steel shank



## 2 FLUTE UPCUT BITS

Two flute upcut spiral tools produce a cleaner bottom edge finish and improve chip evacuation. Leaves a smoother bottom edge finish. General purpose applications. Recommended for solid surface, wood composites and natural wood.

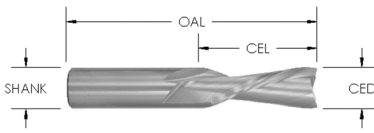


PART #	CED	CEL	SHANK	OAL
SRU090	1/16"	1/4"	1/8"	1-1/2"
SRU092	1/8"	1/2"	1/8"	1-1/2"
SRU102	3/32"	1/2"	1/4"	2"
SRU103	1/8"	1/2"	1/4"	2"
SRU104	1/8"	7/8"	1/4"	2-1/2"
SRU105	5/32"	3/4"	1/4"	2"
SRU110	3/16"	3/4"	1/4"	2"
SRU112	3/16"	3/4"	1/4"	2-1/2"
SRU113	5MM	3/4"	1/4"	2"
SRU115	7/32"	3/4"	1/4"	2"
SRU118	1/4"	3/4"	1/4"	2-1/2"
SRU119	6MM	25MM	6MM	64MM
SRU120	1/4"	1"	1/4"	2-1/2"
SRU121*	1/4"	1"	1/2"	3-3/8"
SRU123	1/4"	1-1/4"	1/4"	3"
SRU124	9/32"	1"	1/2"	3"
SRU125	5/16"	1"	5/16"	3"
SRU127	5/16"	1-1/8"	5/16"	3"
SRU130	5/16"	1"	1/2"	3"
SRU133	8MM	25MM	8MM	65MM
SRU135	3/8"	1"	3/8"	3"
SRU137	3/8"	1-1/4"	3/8"	3"
SRU145	3/8"	1-1/4"	1/2"	3"
SRU147	10MM	1-1/8"	1/2"	3"
SRU150	7/16"	1-1/4"	1/2"	3"
SRU152	12MM	35MM	12MM	76MM
SRU153	1/2"	1"	1/2"	3"
SRU155	1/2"	1-1/4"	1/2"	3"
SRU158	1/2"	1-1/2"	1/2"	3-1/2"
SRU160	1/2"	1-5/8"	1/2"	3-1/2"
SRU163	1/2"	1-3/4"	1/2"	4"
SRU165	1/2"	2"	1/2"	4"
SRU167	1/2"	2-1/8"	1/2"	4"
SRU168	1/2"	2-1/2"	1/2"	5"
SRU169	17/32"	1-1/4"	1/2"	3-1/2"
SRU170	9/16"	1-1/4"	1/2"	3-1/2"
SRU175	5/8"	1-1/2"	5/8"	3-1/2"
SRU180	5/8"	2"	5/8"	4"
SRU185	3/4"	1-1/2"	3/4"	4"
SRU190	3/4"	2"	3/4"	4"
SRU191	3/4"	2-1/8"	3/4"	4"
SRU192	3/4"	2-1/2"	3/4"	5"
SRU193	3/4"	3"	3/4"	6"
SRU195	3/4"	3-1/4"	3/4"	6"
SRU197	3/4"	3-1/2"	3/4"	6"

\* steel shank

## 2 FLUTE DOWNCUT BITS - MD

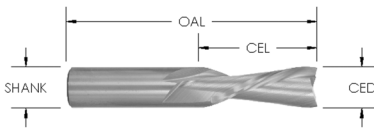
Two flute downcut spiral tools produce a cleaner top edge cut. This MD series is used when "extended tool life" is recommended for cutting adhesive and abrasive materials. Downcut forces assist holding down materials during the cut operation. Recommended cutting MDF, particle board, plywood, melamine and laminates.



PART #	CED	CEL	SHANK	OAL
SRD202MD	1/8"	1/2"	1/4"	2"
SRD218MD	1/4"	3/4"	1/4"	2-1/2"
SRD220MD	1/4"	1"	1/4"	2-1/2"
SRD235MD	3/8"	1"	3/8"	3"
SRD237MD	3/8"	1-1/4"	3/8"	3"
SRD255MD	1/2"	1-1/4"	1/2"	3"
SRD260MD	1/2"	1-5/8"	1/2"	3-1/2"
SRD265MD	1/2"	2"	1/2"	4"

## 2 FLUTE DOWNCUT BITS - HD

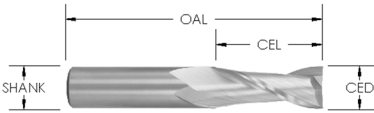
This HD series of tooling extends the max life of tooling at a lower cost than coated tools. Recommended for MDF, chipboard with melamine, laminates and veneered plywood.



PART #	CED	CEL	SHANK	OAL
SRD235HD	3/8"	1"	3/8"	3"
SRD237HD	3/8"	1-1/4"	3/8"	3"
SRD252HD	1/2"	1"	1/2"	3"
SRD255HD	1/2"	1-1/4"	1/2"	3"
SRD260HD	1/2"	1-5/8"	1/2"	3-1/2"

## 2 FLUTE UPCUT BITS - MD

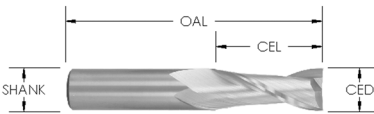
Two flute upcut spiral tools improve chip evacuation and leaves a smoother bottom edge finish. This MD series is used when "extended tool life" is recommended for cutting adhesive and abrasive materials. Recommended cutting MDF, particle board, plywood, melamine and laminates.



PART #	CED	CEL	SHANK	OAL
SRU103MD	1/8"	1/2"	1/4"	2"
SRU114MD	1/4"	3/4"	1/4"	2-1/2"
SRU120MD	1/4"	1"	1/4"	2-1/2"
SRU135MD	3/8"	1"	3/8"	3"
SRU137MD	3/8"	1-1/4"	3/8"	3"
SRU155MD	1/2"	1-1/4"	1/2"	3"
SRU160MD	1/2"	1-5/8"	1/2"	3-1/2"
SRU165MD	1/2"	2"	1/2"	4"

## 2 FLUTE UPCUT BITS - HD

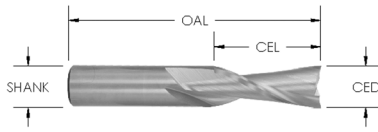
This HD series of tooling extends the max life of tooling at a lower cost than coated tools. Recommended for MDF, chipboard with melamine, laminates and veneered plywood.



PART #	CED	CEL	SHANK	OAL
SRU135HD	3/8"	1"	3/8"	3"
SRU137HD	3/8"	1-1/4"	3/8"	3"
SRU152HD	1/2"	1"	1/2"	3"
SRU155HD	1/2"	1-1/4"	1/2"	3"
SRU160HD	1/2"	1-5/8"	1/2"	3-1/2"

## 2 FLUTE DOWNCUT LEFT-HAND

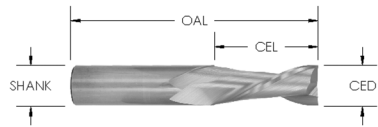
Two flute downcut spiral tools leave a cleaner top edge cut. Downcut forces assist holding down material during use. General purpose applications. Recommended for solid surface, wood composites and natural wood.



PART #	CED	CEL	SHANK	OAL
SLD400	1/8"	1/2"	1/4"	2"
SLD410	3/16"	3/4"	1/4"	2"
SLD415	7/32"	3/4"	1/4"	2"
SLD420	1/4"	1"	1/4"	2-1/2"
SLD425	5/16"	1"	5/16"	3"
SLD430	3/8"	1"	3/8"	3"
SLD435	7/16"	1-1/4"	1/2"	3"
SLD440	1/2"	1-1/4"	1/2"	3"
SLD445	1/2"	1-5/8"	1/2"	3-1/2"
SLD450	1/2"	2"	1/2"	4"
SLD455	5/8"	1-1/2"	5/8"	3-1/2"
SLD460	5/8"	2"	5/8"	4"
SLD465	3/4"	1-1/2"	3/4"	4"
SLD470	3/4"	2"	3/4"	4"

## 2 FLUTE UPCUT LEFT-HAND

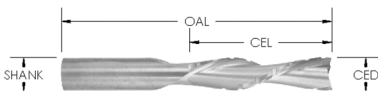
Two flute upcut spiral tools improve bottom edge finish and enhance chip evacuation. Leaves a smooth bottom edge finish. General purpose applications. Recommended for solid surface, wood composites and natural wood.



PART #	CED	CEL	SHANK	OAL
SLU300	1/8"	1/2"	1/4"	2"
SLU310	3/16"	3/4"	1/4"	2"
SLU315	7/32"	3/4"	1/4"	2"
SLU320	1/4"	1"	1/4"	2-1/2"
SLU325	5/16"	1"	5/16"	3"
SLU330	3/8"	1"	3/8"	3"
SLU335	7/16"	1-1/4"	1/2"	3"
SLU340	1/2"	1-1/4"	1/2"	3"
SLU345	1/2"	1-1/2"	1/2"	3-1/2"
SLU350	1/2"	2"	1/2"	4"
SLU355	5/8"	1-1/2"	5/8"	3-1/2"
SLU360	5/8"	2"	5/8"	4"
SLU365	3/4"	1-1/2"	3/4"	4"
SLU370	3/4"	2"	3/4"	4"

## 2 FLUTE DOWNCUT BITS W/ CHIPBEAKERS

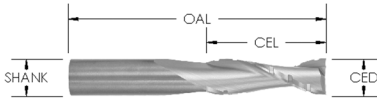
Two flute downcut chipbreakers are designed to reduce chip size for faster feed rates. Downcut forces improve material hold down. These tools are recommended for wood composites and natural wood.



PART #	CED	CEL	SHANK	OAL
SRD237CB	3/8"	1-1/4"	3/8"	3"
SRD255CB	1/2"	1-1/4"	1/2"	3"
SRD260CB	1/2"	1-5/8"	1/2"	3-1/2"
SRD265CB	1/2"	2"	1/2"	4"
SRD267CB	1/2"	2-1/8"	1/2"	4"
SRD280CB	5/8"	2"	5/8"	4"
SRD290CB	3/4"	2"	3/4"	4"
SRD293CB	3/4"	3"	3/4"	6"

## 2 FLUTE UPCUT BITS W/ CHIPBEAKERS

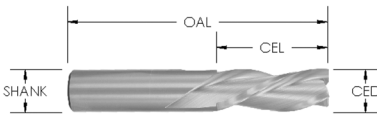
Two flute upcut chipbreakers are designed to reduce chip size for faster feed rates. Upcut forces improve chip evacuation. These tools are recommended for wood composites and natural wood.



PART #	CED	CEL	SHANK	OAL
SRU137CB	3/8"	1-1/4"	3/8"	3"
SRU155CB	1/2"	1-1/4"	1/2"	3"
SRU160CB	1/2"	1-5/8"	1/2"	3-1/2"
SRU165CB	1/2"	2"	1/2"	4"
SRU167CB	1/2"	2-1/8"	1/2"	4"
SRU180CB	5/8"	2"	5/8"	4"
SRU190CB	3/4"	2"	3/4"	4"
SRU193CB	3/4"	3"	3/4"	6"

## 3 FLUTE DOWNCUT BITS

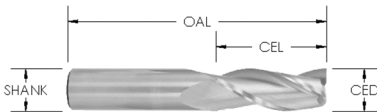
Three flute spiral downcut finishers are designed to improve the finished material upper edges at feed rates similar to two flute spiral spirals. May increase too life compared to two flute tools. Downcut forces improve material hold down. General purpose applications. These tools cut wood composite wood, solid surface and natural wood.



PART #	CED	CEL	SHANK	OAL
SRD540T	3/8"	1-1/4"	3/8"	3"
SRD555T	1/2"	1-1/4"	1/2"	3"
SRD560T	1/2"	1-5/8"	1/2"	3-1/2"
SRD565T	1/2"	2"	1/2"	4"
SRD580T	5/8"	2"	5/8"	4"
SRD585T	3/4"	1-1/2"	3/4"	4"
SRD590T	3/4"	2"	3/4"	4"
SRD595T	3/4"	3"	3/4"	6"
SRD597T	3/4"	3-1/2"	3/4"	6"

## 3 FLUTE UPCUT BITS

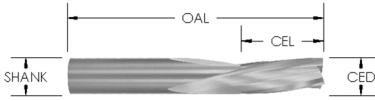
Three flute spiral upcut finishers are designed to improve the finished bottom edges at feed rates similar to two flute spiral spirals. May increase too life compared to two flute tools. Upcut forces improve chip evacuation. General purpose applications. These tools cut wood composites, solid surface and natural wood.



PART #	CED	CEL	SHANK	OAL
SRU420T	1/4"	1"	1/4"	3"
SRU440T	3/8"	1-1/4"	3/8"	3"
SRU455T	1/2"	1-1/4"	1/2"	3"
SRU460T	1/2"	1-5/8"	1/2"	3-1/2"
SRU465T	1/2"	2"	1/2"	4"
SRU480T	5/8"	2"	5/8"	4"
SRU485T	3/4"	1-1/2"	3/4"	4"
SRU490T	3/4"	2"	3/4"	4"
SRU495T	3/4"	3"	3/4"	6"
SRU497T	3/4"	3-1/2"	3/4"	6"

### 3 FLUTE DOWNCUT SLOW SPIRAL BITS

Three flute slow spiral downcut finisher sharp edges produce very smooth finishes in hard plastic, solid surface, wood composites and natural wood.

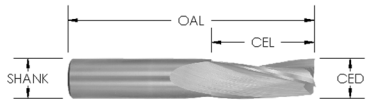


PART #	CED	CEL	SHANK	OAL
SRD702SL	1/4"	1"	1/4"	3"
SRD712SL	3/8"	7/8"	3/8"	3"
SRD713SL	3/8"	1-1/4"	3/8"	3"
SRD724SL	1/2"	1-1/8"	1/2"	3-1/2"
SRD725SL	1/2"	1-1/4"	1/2"	3-1/2"
SRD726SL	1/2"	1-1/2"	1/2"	3-1/2"
SRD727SL	1/2"	1-1/2"	1/2"	4"
SRD728SL	1/2"	1-5/8"	1/2"	4"
SRD729SL	1/2"	1-3/4"	1/2"	4"
SRD745SL	3/4"	2"	3/4"	4"

**GREAT FOR APPLICATION PROBLEMS**

### 3 FLUTE UPCUT SLOW SPIRAL BITS

Three flute slow spiral upcut finisher sharp edges produce very smooth finishes in hard plastic, solid surface, wood composites and natural wood.

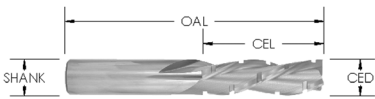


PART #	CED	CEL	SHANK	OAL
SRU602SL	1/4"	1"	1/4"	2-1/2"
SRU611SL	3/8"	3/4"	3/8"	3"
SRU613SL	3/8"	1-1/4"	3/8"	3"
SRU621SL	1/2"	3/4"	1/2"	3"
SRU623SL	1/2"	1-1/8"	1/2"	3-1/2"
SRU625SL	1/2"	1-1/4"	1/2"	3"
SRU626SL	1/2"	1-1/2"	1/2"	3-1/2"
SRU627SL	1/2"	1-1/2"	1/2"	4"
SRU629SL	1/2"	1-3/4"	1/2"	4"
SRU645SL	3/4"	2"	3/4"	4"
SRU648SL	3/4"	3"	3/4"	6"

**GREAT FOR APPLICATION PROBLEMS**

### 3 FLUTE DOWNCUT BITS W/ CHIPBEAKERS

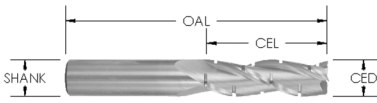
Three flute spiral downcut chipbreakers are designed to reduce chip size for faster feed rates. Better edge finishes and may enhance tool life over two flute tooling. Downcut forces improve material hold down. These tools cut natural wood and wood composites.



PART #	CED	CEL	SHANK	OAL
SRD540TCB	3/8"	1-1/4"	3/8"	3"
SRD555TCB	1/2"	1-1/4"	1/2"	3"
SRD560TCB	1/2"	1-5/8"	1/2"	3-1/2"
SRD565TCB	1/2"	2"	1/2"	4"
SRD580TCB	5/8"	2"	5/8"	4"
SRD585TCB	3/4"	1-1/2"	3/4"	4"
SRD590TCB	3/4"	2"	3/4"	4"
SRD595TCB	3/4"	3"	3/4"	6"

### 3 FLUTE UPCUT BITS W/ CHIPBEAKERS

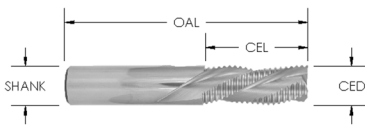
Three flute spiral upcut chipbreakers are designed to reduce chip size for faster feed rates. Better edge finishes and may enhance tool life over two flute tooling. Upcut forces improve chip evacuation. These tools are recommended for natural wood and wood composites.



PART #	CED	CEL	SHANK	OAL
SRU440TCB	3/8"	1-1/4"	3/8"	3"
SRU455TCB	1/2"	1-1/4"	1/2"	3"
SRU460TCB	1/2"	1-5/8"	1/2"	3-1/2"
SRU465TCB	1/2"	2"	1/2"	4"
SRU480TCB	5/8"	2"	5/8"	4"
SRU485TCB	3/4"	1-1/2"	3/4"	4"
SRU490TCB	3/4"	2"	3/4"	4"
SRU495TCB	3/4"	3"	3/4"	6"

### 3 FLUTE DOWNCUT ROUGHERS

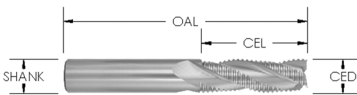
Three flute spiral downcut roughers are designed to increase feed rates when surface finish is not important. Downcut forces improve material hold down. These tools are recommended for natural wood and wood composites.



PART #	CED	CEL	SHANK	OAL
SRD420RUF	3/8"	7/8"	3/8"	2-1/2"
SRD440RUF	3/8"	1-1/4"	3/8"	3"
SRD446RUF	3/8"	1-3/4"	3/8"	4"
SRD450RUF	1/2"	1-1/4"	1/2"	3"
SRD460RUF	1/2"	1-1/2"	1/2"	3-1/2"
SRD468RUF	1/2"	1-3/4"	1/2"	4"
SRD470RUF	1/2"	2"	1/2"	4"
SRD467RUF	1/2"	2-1/4"	1/2"	4"
SRD480RUF	5/8"	2"	5/8"	4"
SRD490RUF	3/4"	2"	3/4"	4"
SRD492RUF	3/4"	2-1/2"	3/4"	5"
SRD493RUF	3/4"	3"	3/4"	6"
SRD495RUF	3/4"	3-1/4"	3/4"	6"
SRD497RUF	3/4"	3-1/2"	3/4"	6"

### 3 FLUTE UPCUT ROUGHERS

Three flute spiral upcut roughers are designed to increase feed rates when surface finish is not important. Upcut forces improve chip evacuation. These tools are recommended for natural wood and wood composites.



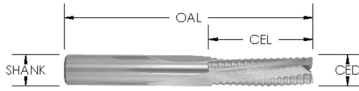
PART #	CED	CEL	SHANK	OAL
SRU320RUF*	3/8"	7/8"	3/8"	2-1/2"
SRU340RUF	3/8"	1-1/4"	3/8"	3"
SRU346RUF	3/8"	1-3/4"	3/8"	4"
SRU350RUF	1/2"	1-1/4"	1/2"	3"
SRU360RUF	1/2"	1-1/2"	1/2"	3-1/2"
SRU368RUF	1/2"	1-3/4"	1/2"	4"
SRU370RUF	1/2"	2"	1/2"	4"
SRU367RUF	1/2"	2-1/4"	1/2"	4"
SRU380RUF	5/8"	2"	5/8"	4"
SRU390RUF	3/4"	2"	3/4"	4"
SRU392RUF	3/4"	2-1/2"	3/4"	5"
SRU393RUF	3/4"	3"	3/4"	6"
SRU395RUF	3/4"	3-1/4"	3/4"	6"
SRU397RUF	3/4"	3-1/2"	3/4"	6"

\*For Pocket Cutting Machine



### 3 FLUTE DOWNCUT SLOW SPIRAL ROUGHERS

Three flute slow spiral downcut roughers are designed to increase feed rates when surface finish is not important. Downcut forces improve material hold down. These tools are recommended for plastic, natural wood and wood composites.



PART #	CED	CEL	SHANK	OAL
SRD613SLRUF	3/8"	1-1/4"	3/8"	3"
SRD614SLRUF	3/8"	1-1/4"	3/8"	3-1/2"
SRD625SLRUF	1/2"	1-1/4"	1/2"	3-1/2"
SRD626SLRUF	1/2"	1-1/2"	1/2"	4"
SRD627SLRUF	1/2"	1-5/8"	1/2"	4"
SRU637SLRUF	5/8"	2-1/8"	5/8"	5"
SRD645SLRUF	3/4"	2"	3/4"	5"

### 3 FLUTE UPCUT SLOW SPIRAL ROUGHERS

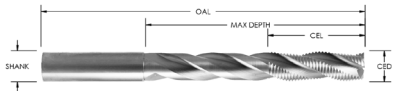
Three flute slow spiral upcut roughers are designed to increase feed rates when surface finish is not important. The lower helix will produce less lifting forces. These tools are recommended for plastic, natural wood and wood composites.



PART #	CED	CEL	SHANK	OAL
SRU513SLRUF	3/8"	1-1/4"	3/8"	3"
SRU523SLRUF	1/2"	1-1/8"	1/2"	3-1/2"
SRU527SLRUF	1/2"	1-5/8"	1/2"	4"
SRU528SLRUF	1/2"	1-3/4"	1/2"	4"
SRU534SLRUF	5/8"	1-5/8"	5/8"	4"
SRU537SLRUF	5/8"	2-1/8"	5/8"	5"
SRU542SLRUF	3/4"	1-5/8"	3/4"	4"
SRU545SLRUF	3/4"	2"	3/4"	5"

### 3 FLUTE DEEP POCKET MORTISE UPCUT

3 flute roughing bits for deep pocket mortising. These bits are fluted and the diameter is reduced behind the cutting edge for reach and to evacuate chips.



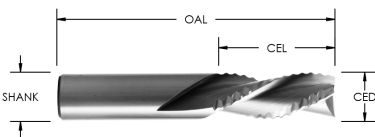
PART #	CED	CEL	SHANK	OAL	MAX DEPTH	FLUTES
SRMU160	16 MM	50 MM	16 MM	170 MM	114 MM	3

*More Sizes Available*

## NEW SOLID CARBIDE ROUGHERS

### 3 FLUTE HP DOWNCUT ROUGHER

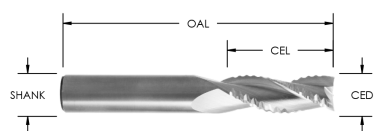
Three flute superior performance spiral downcut roughers are designed to maximize feed rates when surface finish is not important. Downcut forces improve material hold down. These tools are recommended for natural wood and wood composites.



PART #	CED	CEL	SHANK	OAL
SRD420RHP	3/8"	7/8"	3/8"	2-1/2"
SRD440RHP	3/8"	1-1/4"	3/8"	3"
SRD450RHP	1/2"	1-1/4"	1/2"	3"
SRD468RHP	1/2"	1-3/4"	1/2"	4"

### 3 FLUTE HP UPCUT ROUGHERS

Three flute superior performance spiral upcut roughers are designed to maximize feed rates when surface finish is not important. Upcut forces improve chip evacuation. These tools are recommended for natural wood and wood composites.

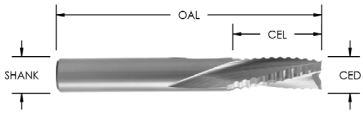


PART #	CED	CEL	SHANK	OAL
SRU320RHP*	3/8"	7/8"	3/8"	2-1/2"
SRU340RHP	3/8"	1-1/4"	3/8"	3"
SRU350RHP	1/2"	1-1/4"	1/2"	3"
SRU368RHP	1/2"	1-3/4"	1/2"	4"

*\*For Pocket Cutting Machine*

### 3 FLUTE HP DOWNCUT SLOW SPIRAL ROUGHERS

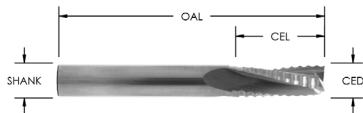
Three flute slow spiral superior performance downcut roughers are designed to maximize feed rates when surface finish is not important. Downcut forces improve material hold down. These tools are recommended for plastic, natural wood and wood composites.



PART #	CED	CEL	SHANK	OAL
SRD614SRHP	3/8"	1-1/4"	3/8"	3-1/2"
SRD625SRHP	1/2"	1-1/4"	1/2"	3-1/2"
SRD627SRHP	1/2"	1-5/8"	1/2"	4"

### 3 FLUTE HP UPCUT SLOW SPIRAL ROUGHERS

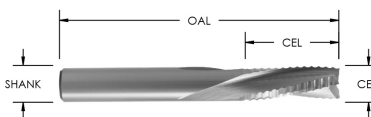
Three flute slow spiral superior performance upcut roughers are designed to maximize feed rates when surface finish is not important. The lower helix will produce less lifting forces. These tools are recommended for plastic, natural wood and wood composites.



PART #	CED	CEL	SHANK	OAL
SRU513SRHP	3/8"	1-1/4"	3/8"	3"
SRU523SRHP	1/2"	1-1/8"	1/2"	3-1/2"
SRU528SRHP	1/2"	1-3/4"	1/2"	4"

### 3 FLUTE HP DOWNCUT ROUGHERS - LOW HELIX - FINE

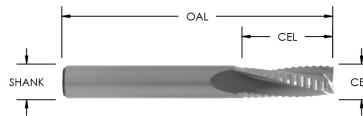
Three flute low helix fine tooth spiral downcut roughers are designed to increase feed rates when surface finish is not important. Downcut forces improve material hold down. These tools are recommended for natural wood and wood composites.



PART #	CED	CEL	SHANK	OAL
SRDF610SRHP	3/8"	1"	3/8"	3"
SRDF625SRHP	1/2"	1-1/4"	1/2"	3-1/2"

### 3 FLUTE HP UPCUT ROUGHERS - LOW HELIX - FINE

Three flute low helix fine tooth spiral upcut roughers are designed to increase feed rates when surface finish is not important. Upcut forces improve chip evacuation. These tools are recommended for natural wood and wood composites.

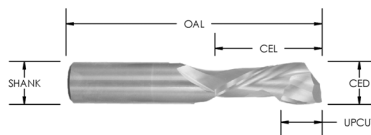


PART #	CED	CEL	SHANK	OAL
SRUF510SRHP	3/8"	1"	3/8"	3"
SRUF525SRHP	1/2"	1-1/4"	1/2"	3-1/2"

## SOLID CARBIDE COMPRESSION BITS

### 1+1 COMPRESSION BITS

1 Flute edge compression spiral used to cut double sided laminated material, wood composites and natural wood to improve the finish of upper and lower material edges. Should be used for slower feed rate applications.

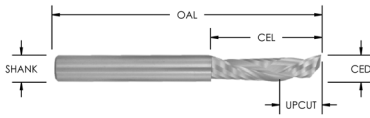


PART #	CED	CEL	SHANK	OAL	UPCUT
SUD500	1/4"	1"	1/4"	2-1/2"	1/4"
SUD505	3/8"	1-1/4"	3/8"	3"	3/8"
SUD506*	3/8"	1-1/4"	3/8"	3"	3/16"
SUD509	1/2"	1-1/8"	1/2"	3"	1/2"
SUD510	1/2"	1-1/4"	1/2"	3"	1/2"
SUD512	1/2"	1-3/8"	1/2"	3-1/2"	1/2"
SUD515	1/2"	1-5/8"	1/2"	3-1/2"	1/2"
SUD531	5/8"	2-1/8"	5/8"	4"	5/8"

\*3/16" Upcut For Mortise Cuts

## 1+1 COMPRESSION - LEFT-HAND

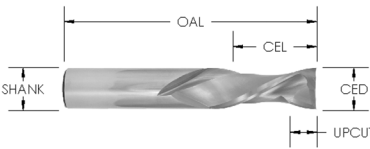
1 Flute edge compression spiral used to cut double sided laminated material, wood composites and natural wood to improve the finish of upper and lower material edges. Should be used for slower feed rate applications.



PART #	CED	CEL	SHANK	OAL	UPCUT
SLUD598	1/4"	1"	1/4"	2-1/2"	1/4"
SLUD600	3/8"	1-1/4"	3/8"	3"	3/8"
SLUD605	1/2"	1-1/4"	1/2"	3"	1/2"
SLUD610	1/2"	1-1/2"	1/2"	3-1/2"	1/2"
SLUD615	1/2"	2"	1/2"	4"	5/8"

## 2+2 COMPRESSIONS

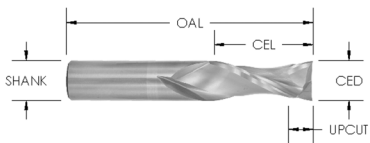
Two flute compression spiral used to cut double sided laminated materials and natural wood to improve the finish of upper and lower material edges.



PART #	CED	CEL	SHANK	OAL	UPCUT
SUD550	3/8"	1-1/4"	3/8"	3"	3/8"
SUD554	1/2"	1-1/8"	1/2"	3"	5/16"
SUD555	1/2"	1-1/4"	1/2"	3"	5/16"
SUD558	1/2"	1-1/4"	1/2"	3"	1/2"
SUD560	1/2"	1-3/8"	1/2"	3-1/2"	5/16"
SUD563	1/2"	1-3/8"	1/2"	3-1/2"	1/2"
SUD565	1/2"	1-5/8"	1/2"	3-1/2"	5/16"
SUD566	1/2"	1-5/8"	1/2"	3-1/2"	5/8"
SUD570	1/2"	1-5/8"	1/2"	4"	5/16"
SUD572	1/2"	1-5/8"	1/2"	4"	1/2"
SUD573	1/2"	2"	1/2"	4"	5/16"
SUD573B	1/2"	2"	1/2"	4"	5/8"
SUD580	5/8"	2"	5/8"	4"	5/8"
SUD585	3/4"	1-1/2"	3/4"	4"	7/8"
SUD590	3/4"	2"	3/4"	4"	7/8"
SUD592	3/4"	2-1/2"	3/4"	5"	7/8"
SUD594	3/4"	3"	3/4"	6"	7/8"
SUD597	3/4"	3-1/2"	3/4"	6"	7/8"

## 2+2 COMPRESSIONS - MORTISE

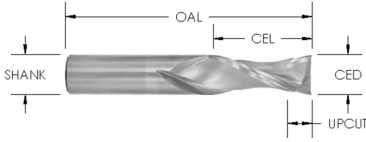
Two flute compression spiral used to cut double sided laminated material and natural wood material to improve the finish of upper and lower material edges.



PART #	CED	CEL	SHANK	OAL	UPCUT
SUD448	1/4"	1"	1/4"	2-1/2"	3/16"
SUD460	5/16"	1-1/4"	5/16"	3"	3/16"
SUD462	5/16"	1"	5/16"	3"	3/16"
SUD551	3/8"	1-1/4"	3/8"	3"	3/16"
SUD551A	3/8"	1-1/2"	3/8"	3-1/2"	3/16"
SUD553	1/2"	1"	1/2"	3"	3/16"
SUD553A	1/2"	1"	1/2"	3-1/2"	3/16"
SUD557	1/2"	1-1/4"	1/2"	3"	3/16"
SUD567	1/2"	1-5/8"	1/2"	3-1/2"	3/16"
SUD571	1/2"	1-3/4"	1/2"	4"	1/4"

## 2+2 COMPRESSIONS - LEFT-HAND

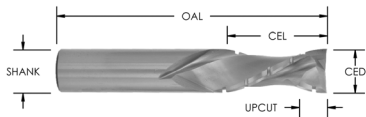
Two flute compression spiral used to cut double sided laminated material and natural wood material to improve the finish of upper and lower material edges.



PART #	CED	CEL	SHANK	OAL	UPCUT
SLUD648	1/4"	1"	1/4"	2-1/2"	3/16"
SLUD650	3/8"	1-1/4"	3/8"	3"	3/16"
SLUD655	1/2"	1-1/4"	1/2"	3"	5/16"
SLUD665	1/2"	1-5/8"	1/2"	3-1/2"	5/16"
SLUD673	1/2"	2"	1/2"	4"	5/16"
SLUD680	5/8"	2"	5/8"	4"	5/8"
SLUD685	3/4"	1-1/2"	3/4"	4"	7/8"
SLUD690	3/4"	2"	3/4"	4"	7/8"
SLUD696	3/4"	2-1/2"	3/4"	5"	7/8"

## 2+2 COMPRESSIONS W/ CHIPBREAKERS

Two flute compression spiral chipbreaker used to cut double sided laminated material and natural wood at increased feed rates.

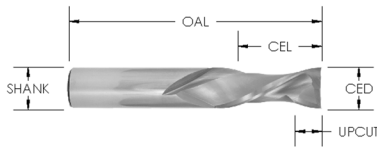


PART #	CED	CEL	SHANK	OAL	UPCUT
SUD448CB*	1/4"	1"	1/4"	2-1/2"	3/16"
SUD462CB	5/16"	1"	5/16"	3"	3/16"
SUD550CB	3/8"	1-1/4"	3/8"	3"	3/8"
SUD551CB*	3/8"	1-1/4"	3/8"	3"	3/16"
SUD551ACB*	3/8"	1-1/2"	3/8"	3-1/2"	3/16"
SUD553CB*	1/2"	1"	1/2"	3"	3/16"
SUD553ACB*	1/2"	1"	1/2"	3-1/2"	3/16"
SUD554CB	1/2"	1-1/8"	1/2"	3"	5/16"
SUD555CB	1/2"	1-1/4"	1/2"	3"	5/16"
SUD557CB*	1/2"	1-1/4"	1/2"	3"	3/16"
SUD560CB	1/2"	1-3/8"	1/2"	3-1/2"	5/16"
SUD565CB	1/2"	1-5/8"	1/2"	3-1/2"	5/16"
SUD567CB*	1/2"	1-5/8"	1/2"	3-1/2"	3/16"
SUD570CB	1/2"	1-5/8"	1/2"	4"	5/16"
SUD571CB	1/2"	1-3/4"	1/2"	4"	1/4"
SUD573CB	1/2"	2"	1/2"	4"	5/16"
SUD580CB	5/8"	2"	5/8"	4"	5/8"
SUD585CB	3/4"	1-1/2"	3/4"	4"	7/8"
SUD590CB	3/4"	2"	3/4"	4"	7/8"
SUD592CB	3/4"	2-1/2"	3/4"	4"	7/8"
SUD594CB	3/4"	3"	3/4"	6"	7/8"

\*3/16" Upcut For Mortise Cuts

## 2+2 COMPRESSIONS - MD

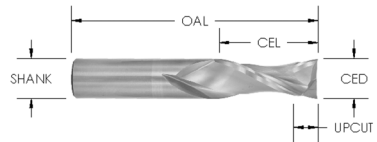
Two flute compression spiral used to improve the finish of upper and lower material edges. This MD series is used when "extended life" is needed for cutting adhesive and abrasive material. Recommended for double sided laminated and veneered material.



PART #	CED	CEL	SHANK	OAL	UPCUT
SMDUD445	1/4"	7/8"	1/4"	2-1/2"	1/4"
SMDUD540	3/8"	7/8"	3/8"	3"	3/8"
SMDUD550	3/8"	1-1/4"	3/8"	3"	3/8"
SMDUD554	1/2"	1-1/8"	1/2"	3"	5/16"
SMDUD555	1/2"	1-1/4"	1/2"	3"	5/16"
SMDUD558	1/2"	1-1/4"	1/2"	3"	1/2"
SMDUD560	1/2"	1-3/8"	1/2"	3-1/2"	5/16"
SMDUD563	1/2"	1-3/8"	1/2"	3-1/2"	1/2"
SMDUD565	1/2"	1-5/8"	1/2"	3-1/2"	5/16"
SMDUD566	1/2"	1-5/8"	1/2"	3-1/2"	5/8"
SMDUD569	1/2"	1-5/8"	1/2"	4"	5/8"
SMDUD571	1/2"	1-3/4"	1/2"	3-1/2"	3/4"
SMDUD573	1/2"	2"	1/2"	4"	5/16"
SMDUD575	1/2"	2"	1/2"	4"	5/8"

## 2+2 COMPRESSIONS - MD MORTISE

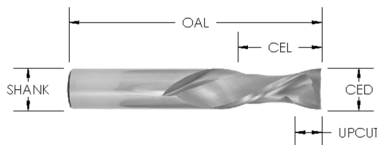
Two flute compression spiral used to improve the finish of upper and lower material edges. This MD series is used when "extended life" is needed for cutting adhesive and abrasive material. Recommended for double sided laminated and veneered material.



PART #	CED	CEL	SHANK	OAL	UPCUT
SMDUD539	3/8"	7/8"	3/8"	3"	3/16"
SMDUD551-1	3/8"	1"	3/8"	3"	3/16"
SMDUD551	3/8"	1-1/4"	3/8"	3"	3/16"
SMDUD554A	1/2"	1-1/8"	1/2"	3"	3/16"
SMDUD557	1/2"	1-1/4"	1/2"	3"	3/16"
SMDUD567	1/2"	1-5/8"	1/2"	3-1/2"	3/16"

## 2+2 COMPRESSIONS - HD

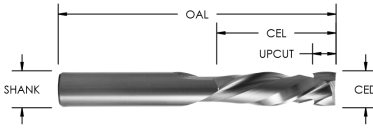
This HD series is used when "maximum tool life" is needed for cutting adhesive and abrasive material at a lower cost than coated tools. Recommended for MDF or chipboard with melamine and laminates. Two flute compression spiral used to improve the finish of upper and lower material edges.



PART #	CED	CEL	SHANK	OAL	UPCUT
SHDUD539	3/8"	7/8"	3/8"	3"	3/16"
SHDUD545	3/8"	1"	3/8"	3"	3/16"
SHDUD551	3/8"	1-1/4"	3/8"	3"	3/16"
SHDUD550	3/8"	1-1/4"	3/8"	3"	3/8"
SHDUD555	1/2"	1-1/4"	1/2"	3"	5/16"
SHDUD558	1/2"	1-1/4"	1/2"	3"	1/2"
SHDUD565	1/2"	1-5/8"	1/2"	3-1/2"	5/16"
SHDUD566	1/2"	1-5/8"	1/2"	3-1/2"	5/8"
SHDUD575	1/2"	2"	1/2"	4"	5/8"

## 2+2 COMPRESSIONS - HD MAX

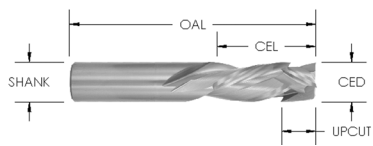
Two flute compression spiral used to improve the finish of upper and lower material edges. This "MAX" series gives superior performance over other standard compressions on the market. It allows for better chip evacuation.



PART #	CED	CEL	SHANK	OAL	UPCUT
SHDUD539MAX	3/8"	7/8"	3/8"	3"	3/16"
SHDUD547MAX	3/8"	1-1/8"	3/8"	3"	1/2"
SHDUD551MAX	3/8"	1-1/4"	3/8"	3"	3/16"
SHDUD550MAX	3/8"	1-1/4"	3/8"	3"	3/8"
SHDUD555MAX	1/2"	1-1/4"	1/2"	3"	5/16"
SHDUD558MAX	1/2"	1-1/4"	1/2"	3"	1/2"
SHDUD559MAX	1/2"	1-3/8"	1/2"	3-1/2"	3/16"

## 3+3 COMPRESSIONS

Three flute compression spiral used to cut double sided laminated, veneered material and natural wood material to improve the finish of upper and lower material edges. Three flute design produces smooth finishes at increased feed rates.

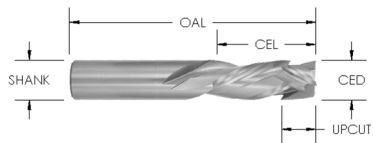


PART #	CED	CEL	SHANK	OAL	UPCUT
SUD750	3/8"	1-1/4"	3/8"	3"	3/8"
SUD751*	3/8"	1-1/4"	3/8"	3"	3/16"
SUD754	1/2"	1-1/8"	1/2"	3"	7/16"
SUD755	1/2"	1-1/4"	1/2"	3"	7/16"
SUD756*	1/2"	1-1/4"	1/2"	3"	3/16"
SUD765	1/2"	1-5/8"	1/2"	3-1/2"	3/4"
SUD790	3/4"	2"	3/4"	4"	7/8"

*\*3/16" Upcut for Mortise Cuts*

## 3+3 COMPRESSIONS - MD

Three flute compression spiral used to cut double sided laminated materials and natural wood materials to improve the finish of upper and lower material edges. Three flute design produces smooth finishes at increased feed rates. This MD series is used when "extended life" is needed for abrasive materials.

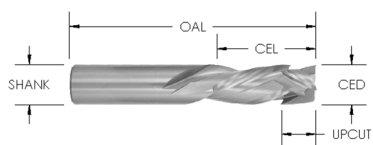


PART #	CED	CEL	SHANK	OAL	UPCUT
SMDUD751*	3/8"	7/8"	3/8"	3"	3/16"
SMDUD751A	3/8"	7/8"	3/8"	3"	3/8"
SMDUD756*	3/8"	1-1/4"	3/8"	3"	3/16"
SMDUD750	3/8"	1-1/4"	3/8"	3"	3/8"
SMDUD790*	1/2"	1-1/4"	1/2"	3"	3/16"
SMDUD755	1/2"	1-1/4"	1/2"	3"	3/8"
SMDUD795	1/2"	1-5/8"	1/2"	3-1/2"	5/8"

*\*3/16" Upcut for Mortise Cuts*

## 3+3 COMPRESSIONS - HD

This HD series is used when "maximum tool life" is needed for cutting adhesive and abrasive material at a lower cost than coated tools. Recommended for MDF or chipboard with melamine and laminates. Three flute compression spiral used to improve the finish of upper and lower material edges.

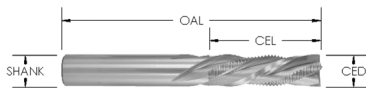


PART #	CED	CEL	SHANK	OAL	UPCUT
SHDUD751	3/8"	1-1/4"	3/8"	3"	3/16"
SHDUD750	3/8"	1-1/4"	3/8"	3"	3/8"
SHDUD754	1/2"	1-1/4"	1/2"	3"	3/16"
SHDUD758	1/2"	1-1/4"	1/2"	3"	1/2"
SHDUD766	1/2"	1-5/8"	1/2"	3-1/2"	5/8"



## 4 FLUTE DOWNCUT FINISHING/ROUGHER

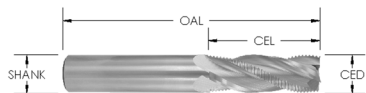
Four flute downcut roughing and finish cut edges in one tool. Downcut improves material hold down. This combination allows for increased feed rates with the simultaneous removals of a roughing tool combined with the smooth finish combined in one tool. Recommended for natural wood and wood composites.



PART #	CED	CEL	SHANK	OAL
SRD823FIN	1/2"	1-1/8"	1/2"	3-1/2"
SRD827FIN	1/2"	1-5/8"	1/2"	4"
SRD830FIN	1/2"	2-1/8"	1/2"	4-1/2"
SRD836FIN	5/8"	2-1/8"	5/8"	5"
SRD846FIN	3/4"	2-1/8"	3/4"	5"

## 4 FLUTE UPCUT FINISHING/ROUGHER

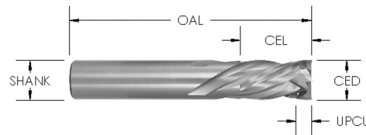
Four flute upcut roughing and finish cut edges in one tool. This combination allows for increased feed rates with the simultaneous removals of a roughing tool combined with the smooth finish combined in one tool. Upcut spiral design improves chip evacuation and improves finish on bottom edges of the material. Recommended for natural wood and wood composites.



PART #	CED	CEL	SHANK	OAL
SRU723FIN	1/2"	1-1/8"	1/2"	3-1/2"
SRU727FIN	1/2"	1-5/8"	1/2"	4"
SRU730FIN	1/2"	2-1/8"	1/2"	4-1/2"
SRU746FIN	3/4"	2-1/8"	3/4"	5"

## 4+4 COMPRESSIONS

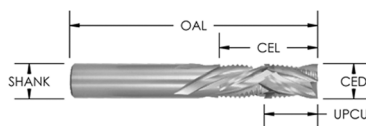
Four flute compression spiral used to cut double sided laminated material, composite and natural wood material to improve the finish of upper and lower material edges. Four flute design produces fine finishes at increased feed rates.



PART #	CED	CEL	SHANK	OAL	UPCUT
SUD840*	1/2"	7/8"	1/2"	3"	.200"
SUD842	1/2"	1"	1/2"	3"	1/2"
SUD844	1/2"	1-1/8"	1/2"	3"	1/2"
SUD860	1/2"	1-3/8"	1/2"	3-1/2"	3/4"
SUD870	1/2"	1-5/8"	1/2"	4"	3/4"
SUD885	3/4"	1-7/8"	3/4"	4"	7/8"
SUD888	3/4"	2-1/2"	3/4"	5"	1-1/4"

## 4+4 FINISHING/ROUGHER COMPRESSIONS

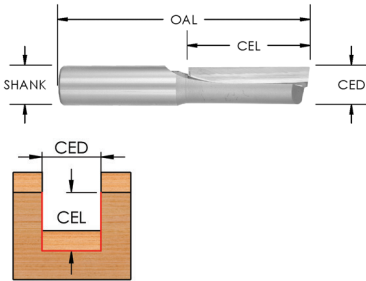
Four flute compression tool with roughing and finish cut edges in one tool. This combination allows for increased feed rates with the simultaneous removals of a roughing tool combined with the fine finishes combined in one tool. Designed to improve the finish of upper and lower material edges. Recommended for natural wood, double sided laminated material, and wood composites.



PART #	CED	CEL	SHANK	OAL	UPCUT
SUD950FIN	1/2"	1"	1/2"	3"	1/2"
SUD955FIN	1/2"	1-1/8"	1/2"	3"	1/2"
SUD960FIN	1/2"	1-3/8"	1/2"	3-1/2"	3/4"
SUD970FIN	1/2"	1-5/8"	1/2"	4"	3/4"
SUD980FIN	3/4"	1-7/8"	3/4"	4"	7/8"
SUD990FIN	3/4"	2-1/2"	3/4"	5"	1-1/4"

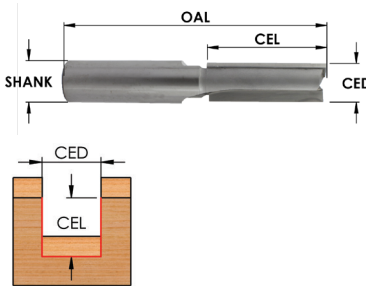
# CARBIDE TIPPED STRAIGHT BITS

## 1 FLUTE STRAIGHT



PART #	CED	CEL	SHANK	OAL
SE1004	1/4"	3/4"	1/4"	2-1/4"
SE1005	1/4"	1"	1/4"	2-1/2"
SE1007	1/4"	1"	1/4"	3-1/8"
SE1033A	5/16"	1"	5/16"	2-5/8"
SE1035	3/8"	1"	3/8"	2-5/8"
SE1036	3/8"	1-1/4"	3/8"	2-3/4"
SE1049	3/8"	1"	1/2"	2-5/8"
SE1050	3/8"	1-1/4"	1/2"	2-7/8"
SE1051	1/2"	1"	1/2"	2-5/8"
SE1052	1/2"	1-1/4"	1/2"	3"
SE1054	1/2"	1-1/2"	1/2"	3-1/4"
SE1055	1/2"	2"	1/2"	4-1/8"
SE1055A	1/2"	2-1/2"	1/2"	4-3/8"
SE1055C	1/2"	2-1/2"	1/2"	5-1/8"

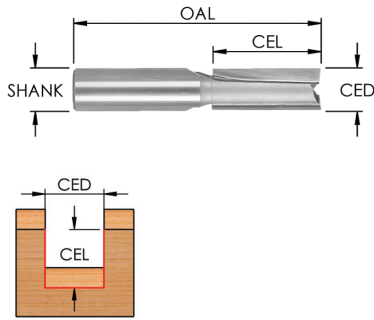
## 2 FLUTE LEFT-HAND STRAIGHT



PART #	CED	CEL	SHANK	OAL
SE1014LH	1/4"	1"	1/4"	2-1/2"
SE1058LH	1/4"	3/4"	1/2"	2-5/8"
SE1060LH	5/16"	1"	1/2"	2-3/4"
SE1062LH	3/8"	1"	1/2"	2-3/4"
SE1066LH	1/2"	1"	1/2"	2-5/8"
SE1069LH	1/2"	1-1/2"	1/2"	3-1/8"
SE1072LH	1/2"	2"	1/2"	4-1/8"
SE1085LH	3/4"	1-1/4"	1/2"	2-3/4"
SE1087LH	3/4"	2"	1/2"	3-3/4"
SE1091LH	7/8"	1-1/4"	1/2"	3"



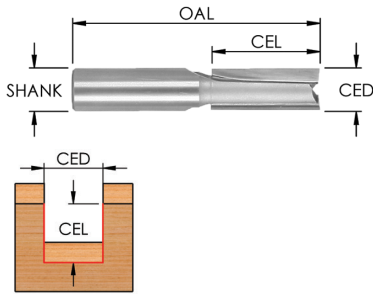
## 2 FLUTE STRAIGHT



PART #	CED	CEL	SHANK	OAL	
SE1011	3/16"	1/2"	1/4"	2"	
SE1012	1/4"	1/2"	1/4"	2"	
SE1013	1/4"	3/4"	1/4"	2-1/8"	Incra®
SE1014	1/4"	1"	1/4"	2-1/2"	
SE1016	1/4"	1"	1/4"	3"	
SE1016-01	.245"	1"	1/4"	3-1/4"	*For Air Router
SE1018	9/32"	1"	1/4"	2-1/2"	
SE1018A	5/16"	3/4"	1/4"	2-3/4"	Leigh® #140
SE1019	5/16"	1"	1/4"	2-1/4"	
SE1021	3/8"	3/4"	1/4"	2-1/4"	
SE1022	3/8"	1"	1/4"	2-1/4"	Incra®
SE1023	3/8"	1 1/4"	1/4"	2-3/4"	
SE1023A	13/32"	1"	1/4"	2-1/2"	
SE1024	7/16"	1"	1/4"	2 1/2"	
SE1024A	31/64"	3/4"	1/4"	2 1/4"	Undersize Plywood
SE1024B	15/32"	3/4"	1/4"	2 1/8"	
SE1025	1/2"	1/8"	1/4"	2"	
SE1025A	1/2"	1/4"	1/4"	2 1/4"	
SE1025B	1/2"	1/2"	1/4"	2 1/4"	
SE1025C	1/2"	3/4"	1/4"	2 3/8"	
SE1026	1/2"	1"	1/4"	2 3/4"	OmniJig® #43318
SE1026A	1/2"	1-1/4"	1/4"	2-3/4"	
SE1027	9/16"	3/4"	1/4"	2 1/4"	
SE1027A	19/32"	3/4"	1/4"	2 1/4"	Undersize Plywood
SE1027B	5/8"	1/4"	1/4"	2"	
SE1027C	5/8"	1/2"	1/4"	2-1/4"	
SE1027D	5/8"	3/4"	1/4"	2-1/2"	
SE1028	5/8"	1"	1/4"	2-1/4"	
SE1029	11/16"	3/4"	1/4"	2-1/8"	
SE1029A	23/32"	3/4"	1/4"	2-1/8"	Undersize Plywood
SE1030	3/4"	3/4"	1/4"	2-1/8"	
SE1031	3/4"	1"	1/4"	2-1/4"	
SE1032	7/8"	3/4"	1/4"	2-1/8"	
SE1032A	13/16"	3/4"	1/4"	2-1/8"	
SE1033	1"	3/4"	1/4"	2-1/8"	
SE1303	1-1/4"	3/4"	1/4"	2"	
SECTDS38	3/8"	9/16"	3/8"	2-1/2"	CASTLE®
SE1039	3/8"	1"	3/8"	2-5/8"	
SE1040	3/8"	1-1/4"	3/8"	2-7/8"	
SE1041	3/8"	1-1/4"	3/8"	3-5/8"	
SE1043	1/2"	1"	3/8"	2-1/2"	

Continued on next page

## 2 FLUTE STRAIGHT

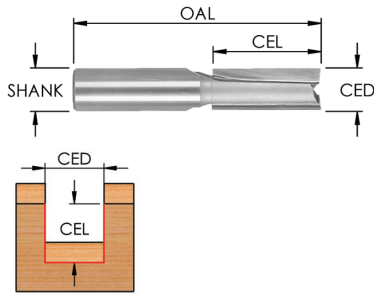


PART #	CED	CEL	SHANK	OAL	
SE1058*	1/4"	3/4"	1/2"	2-5/8"	Incra®
SE1059*	9/32"	3/4"	1/2"	2-1/2"	
SE1060*	5/16"	1"	1/2"	2-3/4"	
SE1061*	3/8"	3/4"	1/2"	2-1/2"	
SE1062*	3/8"	1"	1/2"	2-3/4"	Incra®
SE1063*	3/8"	1-1/4"	1/2"	2-3/4"	
SE1064*	13/32"	3/4"	1/2"	2-1/2"	
SE1065L*	7/16"	1-1/4"	1/2"	3-1/4"	Leigh® 150
SE1065A	31/64"	1"	1/2"	2-5/8"	Undersize Plywood
SE1066	1/2"	1"	1/2"	2-5/8"	
SE1067	1/2"	1-1/4"	1/2"	2-7/8"	Leigh® 160
SE1069	1/2"	1-1/2"	1/2"	3-1/8"	
SE1069DS	1/2"	1-1/2"	1/2"	3-1/8"	Downshear
SE1070	1/2"	1-1/2"	1/2"	4-1/4"	
SE1071	1/2"	2"	1/2"	3-3/4"	
SE1072	1/2"	2"	1/2"	4-1/8"	
SE1073	1/2"	2-1/2"	1/2"	4-1/2"	
SE1073M	1/2"	2-1/2"	1/2"	5-1/2"	
SE1074	17/32"	1-1/4"	1/2"	2-7/8"	
SE1075	9/16"	1-1/4"	1/2"	3"	
SE1075A	19/32"	3/4"	1/2"	2-1/4"	Undersize Plywood
SE1076	5/8"	1"	1/2"	2-1/2"	
SE1077	5/8"	1-1/4"	1/2"	2-3/4"	
SE1078	5/8"	1-1/2"	1/2"	3"	
SE1079	5/8"	2"	1/2"	4"	
SE1080	21/32"	1-1/4"	1/2"	3"	
SE1082	11/16"	1"	1/2"	2-1/2"	
SE1083	11/16"	1-1/4"	1/2"	3"	
SE1083A	23/32"	1"	1/2"	2-1/2"	Undersize Plywood
SE1084	3/4"	1"	1/2"	2-3/4"	
SE1085	3/4"	1-1/4"	1/2"	2-3/4"	
SE1086	3/4"	1-1/2"	1/2"	3"	
SE1087	3/4"	2"	1/2"	3-3/4"	
SE1088	25/32"	1-1/4"	1/2"	3"	
SE1090	13/16"	1-1/4"	1/2"	3"	
SE1091	7/8"	1-1/4"	1/2"	3"	
SE1092	15/16"	1-1/4"	1/2"	3"	
SE1093	1"	1-1/4"	1/2"	2-3/4"	
SE1094	1"	1-1/2"	1/2"	3"	
SE1095	1"	2"	1/2"	3-3/4"	
SE1095A	1-1/16"	1-1/2"	1/2"	3"	
SE1095B	1-1/8"	1"	1/2"	3"	
SE1096	1-1/8"	1-1/2"	1/2"	3-1/2"	
SE1096A	1-1/8"	2"	1/2"	4"	
SE1304	1-1/4"	3/4"	1/2"	2-1/8"	
SE1097	1-1/4"	1-1/2"	1/2"	3"	
SE1098	1-3/8"	1-1/4"	1/2"	3"	
SE1099	1-1/2"	1-1/4"	1/2"	3"	
SE1100	1-3/4"	1-1/4"	1/2"	3"	
SE1101	2"	1-1/4"	1/2"	3"	

The above tools can be supplied with chipbreakers or boring points. Please call for prices. For Chipbreakers add CB to part number. For boring points add (F) for Flat bottom or (V) for V-Point.

\*No Warranty on Breakage

## 2 FLUTE STRAIGHT 3/4 SHANK



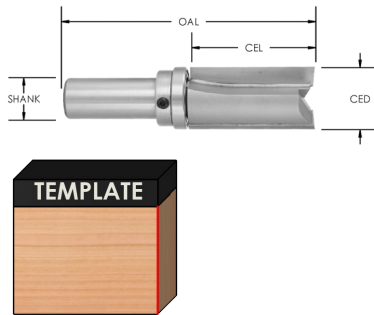
PART #	CED	CEL	SHANK	OAL	ROTATION
SE1105	3/4"	2"	3/4"	4"	RIGHT-HAND
SE1107	3/4"	2-1/2"	3/4"	4-1/2"	RIGHT-HAND
SE1105LH	3/4"	2"	3/4"	5"	LEFT-HAND
SE1107LH	3/4"	2-1/2"	3/4"	5-1/2"	LEFT-HAND

## 2 FLUTE MORTISE STRAIGHT



PART #	CED	CEL	SHANK	OAL
SE1300	1/2"	5/8"	1/4"	2"
SE1301	5/8"	3/4"	1/4"	2"
SE1302	3/4"	3/4"	1/4"	2"
SE1303	1-1/4"	3/4"	1/4"	2"
SE1304	1-1/4"	3/4"	1/2"	2-1/8"

## TEMPLATE STRAIGHT

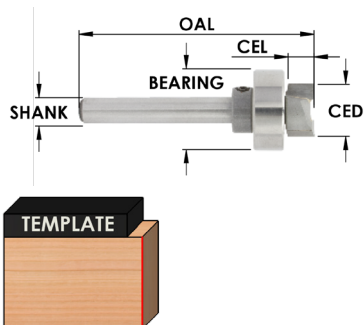


PART #	CED	CEL	SHANK	OAL	BEARING
SE3000A	1/2"	1/8"	1/4"	2"	SBE145
SE3000	1/2"	1/4"	1/4"	2-1/4"	SBE145
SE3001	1/2"	1/2"	1/4"	2-1/4"	SBE145
SE3003	1/2"	3/4"	1/4"	2-3/8"	SBE145
SE3004	1/2"	1"	1/4"	2-3/4"	SBE145
SE3005	1/2"	1-1/4"	1/4"	2-3/4"	SBE145
SE3006	5/8"	1/4"	1/4"	2"	SBE130
SE3007	5/8"	1/2"	1/4"	2-1/4"	SBE130
SE3007A	5/8"	3/4"	1/4"	2-1/2"	SBE130
SE3008	5/8"	1"	1/4"	2-1/4"	SBE130
SE3014	3/4"	1"	1/4"	2-1/4"	SBE120
SE3018	1-1/8"	1-1/2"	1/2"	3-1/2"	SBE150
SE3019	1-1/8"	2"	1/2"	4"	SBE150
SE3020	3/4"	1"	1/2"	2-3/4"	SBE155
SE3021	3/4"	1-1/4"	1/2"	2-3/4"	SBE155
SE3022	3/4"	1-1/2"	1/2"	3"	SBE155
SE3023	3/4"	2"	1/2"	3 3/4"	SBE155

1/4" Shank Bits use SELC-14

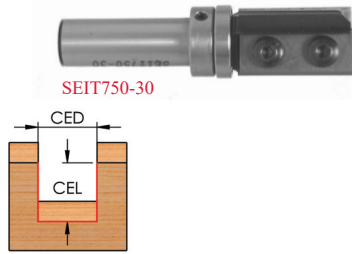
1/2" Shank Bits use SELC-12

## TEMPLATE STRAIGHT WITH OVERSIZED BEARING



PART #	CED	CEL	SHANK	OAL	BEARING DIAMETER	BEARING
SE3025	5/16"	3/4"	1/4"	2-3/4"	1/2"	SBE145
SE3028	1/2"	1/4"	1/4"	2-1/4"	3/4"	SBE120
SE3029	1/2"	1/4"	1/4"	2-1/4"	5/8"	SBE130
SE3032	9/16"	3/4"	1/4"	2-1/4"	5/8"	SBE130

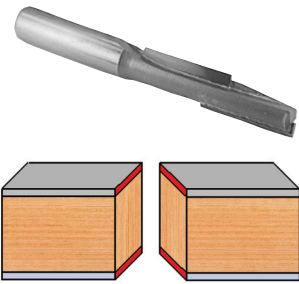
## INSERT TEMPLATE STRAIGHT



PART #	CED	CEL	SHANK	OAL	BEARING	INSERTS
SEIT750-30	3/4"	30mm	1/2"	3"	SBE155	SI-2951215
SEIT750-40	3/4"	40mm	1/2"	3-5/16"	SBE155	SI-3951215
SEIT750-50	3/4"	50mm	1/2"	3-11/16"	SBE155	SI-501217
SEIT1125-30	1-1/8"	30mm	1/2"	3"	SBE150	SI-2951215
SEIT1125-40	1-1/8"	40mm	1/2"	3-5/16"	SBE150	SI-3951215
SEIT1125-50	1-1/8"	50mm	1/2"	3-11/16"	SBE150	SI-501217

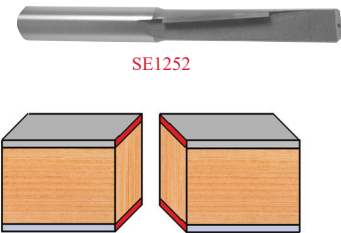
Uses SI-Screw for Insert  
Uses SELC-12, SELC-Screw

## STAGGERTOOTH STRAIGHT FLUTE



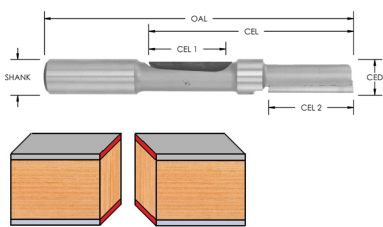
PART #	CED	CEL	SHANK	OAL
SE1201	3/8"	1-1/2"	1/2"	3-1/2"
SE1202	1/2"	1-1/2"	1/2"	3-1/2"
SE1203	1/2"	2"	1/2"	4-1/4"
SE1203-212	1/2"	2-1/2"	1/2"	5-1/2"

## STAGGERTOOTH STRAIGHT OPPOSITE SHEAR



PART #	CED	CEL	SHANK	OAL
SE1252	1/2"	2"	1/2"	4"
SE1256	1/2"	2 -5/8"	1/2"	5-1/2"
SE1261	3/4"	2"	5/8"	5"
SE1270	3/4"	2"	3/4"	4"

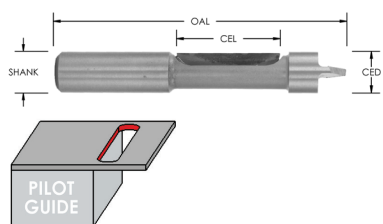
## CENTER PILOT STAGGERTOOTH



PART #	CED	CEL	SHANK	OAL
SE1725	1/2"	2-3/4"	1/2"	4-1/4"
SE1726	1/2"	2-3/4"	1/2"	4-1/4"

SE1726 is used for CNC and very harsh applications where tool life is needed.

## PLUNGE PANEL PILOT - 1 FLUTE

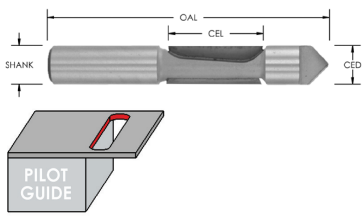


PART #	CED	CEL	SHANK	OAL
SE1700	1/4"	3/4"	1/4"	2-1/2"
SE1701	3/8"	1"	3/8"	3-1/8"
SE1701-Nail	3/8"	1"	3/8"	2-7/8"
SE1702	1/2"	1-1/4"	1/2"	3-1/2"
SE1702-Nail	1/2"	1-1/4"	1/2"	3-1/2"
SE1703	1/2"	2"	1/2"	4-3/4"

SE1701-Nail and SE1702-Nail have special carbide designed for nail and staple cutting.

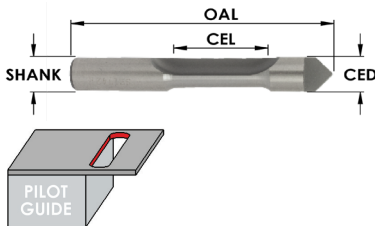


## PLUNGE PANEL PILOT - 2 FLUTE



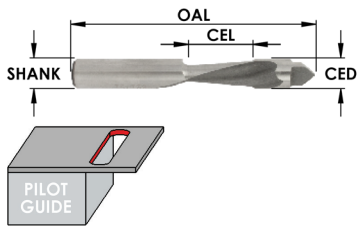
PART #	CED	CEL	SHANK	OAL
SE1704	3/8"	1"	1/4"	3-1/4"
SE1705	3/8"	1"	3/8"	3"
SE1706	1/2"	1-3/16"	1/2"	3-1/2"

## PANEL PILOT - HSS - 1 FLUTE STRAIGHT



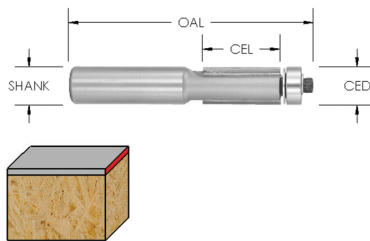
PART #	CED	CEL	SHANK	OAL
SE1740	1/4"	3/4"	1/4"	2-1/2"
SE1741	3/8"	3/4"	3/8"	2-3/4"
SE1742	1/2"	1"	1/2"	3-1/2"

## PANEL PILOT - HSS SPIRAL - 1 FLUTE



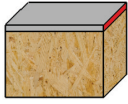
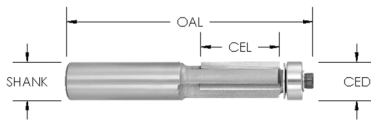
PART #	CED	CEL	SHANK	OAL
SE1750	1/4"	3/4"	1/4"	3-1/4"
SE1751	3/8"	3/4"	3/8"	3"

## FLUSH TRIM (2 FLUTE)



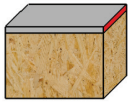
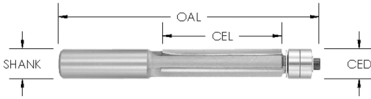
PART #	CED	CEL	SHANK	OAL	BEARING	SCREW
SE2400A	1/4"	3/4"	1/4"	2-1/2"	SBE100	SE2400A-Screw
SE2400	3/8"	1"	1/4"	2-3/4"	SBE105	SE348-38
SE2401	3/8"	1/2"	1/4"	2-1/4"	SBE105	SE348-38
SE2402	1/2"	1"	1/4"	2-3/4"	SBE115	SE540-38
SE2403	1/2"	1/2"	1/4"	2-3/8"	SBE115	SE540-38
SE2404	1/2"	1-1/2"	1/4"	3-1/4"	SBE115	SE540-38
SE2404A	3/8"	1"	1/2"	3-1/8"	SBE105	SE2400A-Screw
SE2405	1/2"	1"	1/2"	3-1/8"	SBE115	SE540-38
SE2406	1/2"	1/2"	1/2"	2-3/4"	SBE115	SE540-38
SE2407	1/2"	1-1/2"	1/2"	3-3/4"	SBE115	SE540-38
SE2408	1/2"	2"	1/2"	4-1/8"	SBE115	SE540-38
SE2409	3/4"	1"	1/2"	3-3/8"	SBE120	SE1032-38
SE2410	3/4"	1-1/4"	1/2"	3-1/2"	SBE120	SE1032-38
SE2414	3/4"	2"	1/2"	4-1/4"	SBE120	SE1032-38

## FLUSH TRIM (3 FLUTE)



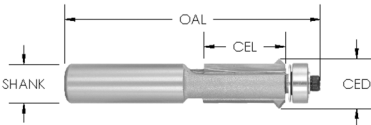
PART #	CED	CEL	SHANK	OAL	BEARING	SCREW
SE2500	1/2"	1"	1/4"	2-3/4"	SBE115	SE540-38
SE2501	1/2"	1/2"	1/4"	2-3/8"	SBE115	SE540-38
SE2502	1/2"	1"	1/2"	3-1/8"	SBE115	SE540-38
SE2504	1/2"	1-1/2"	1/2"	3-3/4"	SBE115	SE540-38
SE2505	1/2"	2"	1/2"	4-1/4"	SBE115	SE540-38

## FLUSH TRIM DOUBLE BEARING



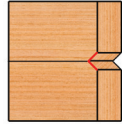
PART #	CED	CEL	SHANK	OAL	BEARING	FLUTES
SE2457	1/2"	1-1/2"	1/2"	4"	SBE115	2
SE2458	1/2"	2"	1/2"	4-1/2"	SBE115	2
SE2554	1/2"	1-1/2"	1/2"	4"	SBE115	3
SE2555	1/2"	2"	1/2"	4-1/2"	SBE115	3

## FLUSH TRIM V-GROOVE

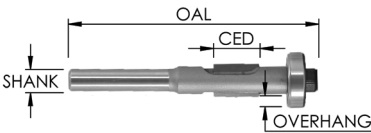


PART #	CED	CEL	SHANK	OAL
SE2425	1/2"	1"	1/4"	2-3/4"
SE2426	1/2"	1"	1/2"	3-1/8"

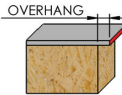
*Use SBE115 Bearing*



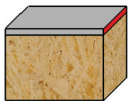
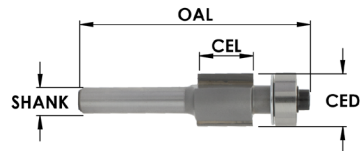
## OVERHANG



PART #	CED	CEL	SHANK	OAL	OVERHANG	BEARING
SE2468	3/8"	1/2"	1/4"	2-5/8"	1/16"	SBE145
SE2470	3/8"	1/2"	1/4"	2-5/8"	1/8"	SBE130



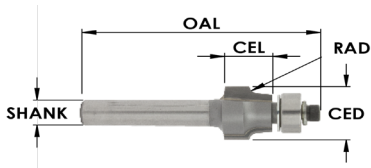
## GLUE SPACE FLUSH TRIM



PART #	CED	CEL	SHANK
SE2416*	3/8"	1/2"	1/4"
SE2417*	3/8"	1"	1/4"
SE2418	1/2"	1/2"	1/4"
SE2419	1/2"	1"	1/4"

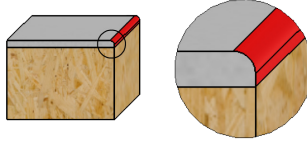
*\*Use SBE105 Bearing  
Use SBE115 Bearing*

## EASY EDGE (NO FILING)

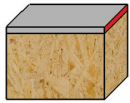
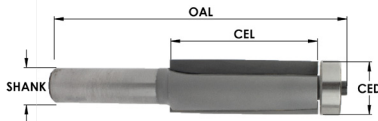


PART #	CED	CEL	SHANK	OAL	RADIUS
SE2420	1/2"	3/8"	1/4"	1-7/8"	1/16"

Use SBE105 Bearing

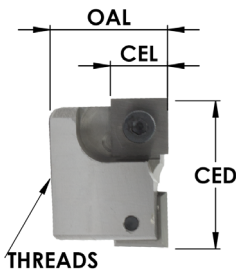


## DOWNSHEAR FLUSH TRIM



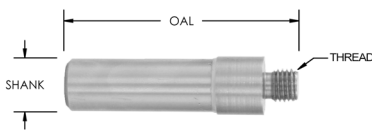
PART #	CED	CEL	SHANK	OAL
SE2562	3/8"	1"	1/4"	2-5/8"
SE2561	1/2"	5/8"	1/4"	2-1/4"
SE2560	3/4"	5/8"	1/4"	2-1/4"
SE2570	3/4"	1"	1/2"	3"
SE2575	3/4"	1-1/2"	1/2"	3-3/4"
SE2580	3/4"	2"	1/2"	4-1/4"

## SCREW-ON MORTISE - INSERT



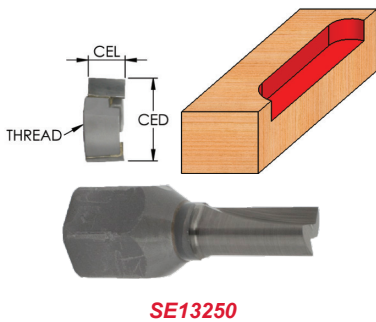
PART #	CED	CEL	OAL	Thread	Insert Size
SEIMHB-1250	1-1/4"	12MM	15/16"	1/4"-28	12 x 12

## SCREW-ON MORTISE - ARBORS



PART #	SHANK	OAL	THREAD
SEHMA-14	1/4"	1-3/4"	1/4"-28
SEHMA-38-XL	3/8"	2-5/8"	1/4"-28
SEHMA-12	1/2"	1-3/4"	1/4"-28
SEHMA-12-XL	1/2"	2-5/8"	1/4"-28
SEHMA-12-XXL	1/2"	3-1/4"	1/4"-28
SEHMA-14-516	1/4"	1-3/4"	5/16"-24
SEHMA-12-516	1/2"	1-3/4"	5/16"-24
SEHMA-12-516-XXL	1/2"	3-1/4"	5/16"-24

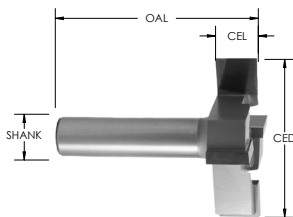
## SCREW-ON MORTISE - CARBIDE-TIPPED



SE13250

PART #	CED	CED	CEL	OAL	THREAD
SE13500	1/2"	.500	5/8"	7/8"	1/4"-28
SE13505	1/2"+.005	.505	5/8"	7/8"	1/4"-28
SE13515	33/64"	.515	5/8"	7/8"	1/4"-28
SE13531	17/32"	.531	5/8"	7/8"	1/4"-28
SE13562	9/16"	.562	5/8"	7/8"	1/4"-28
SE13625	5/8"	.625	5/8"	7/8"	1/4"-28
SE13640	41/64"	.640	5/8"	7/8"	1/4"-28
SE13656	21/32"	.656	5/8"	7/8"	1/4"-28
SE13687	11/16"	.687	5/8"	7/8"	1/4"-28
SE13719	23/32"	.719	5/8"	7/8"	1/4"-28
SE13750	3/4"	.750	5/8"	7/8"	1/4"-28
SE13764	49/64"	.765	5/8"	7/8"	1/4"-28
SE13781	25/32"	.781	5/8"	7/8"	1/4"-28
SE13812	13/16"	.812	5/8"	7/8"	1/4"-28
SE13875	7/8"	.875	5/8"	7/8"	1/4"-28
SE13937	15/16"	.937	5/8"	7/8"	1/4"-28
SE131000	1"	1.000	1/2"	1/2"	1/4"-28
SE131125	1-1/8"	1.125	1/2"	1/2"	1/4"-28
SE131250	1-1/4"	1.250	5/8"	5/8"	1/4"-28
SE131375	1-3/8"	1.375	1/2"	1/2"	1/4"-28
SE131250-516	1-1/4"	1.250	5/8"	5/8"	5/16"-24
SE131250-516A	1-1/4"	1.250	1/2"	1/2"	5/16"-24

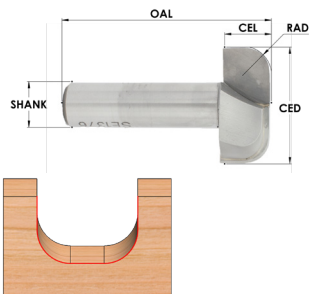
## CARBIDE TIPPED SPOILBOARD CUTTERS



PART #	CED	CEL	SHANK	OAL
SPOIL-622	2"	1/2"	1/2"	2-1/2"

## CARBIDE TIPPED FORM BITS

### BOWL AND TRAY

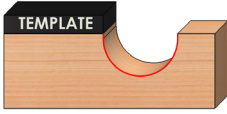
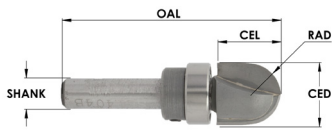


PART #	CED	CEL	SHANK	OAL	RADIUS
SE1370	7/16"	5/16"	1/4"	2-1/8"	1/8"
SE1372	3/4"	5/8"	1/4"	2-3/8"	1/4"
SE1373	1"	1/2"	1/4"	2-3/8"	1/4"
SE1372B*	3/4"	5/8"	1/4"	2-3/8"	1/4"
SE1374	3/4"	5/8"	1/2"	2-3/8"	1/4"
SE1376	1-1/4"	1/2"	1/2"	2-1/4"	1/4"
SE1376B**	1-1/4"	1/2"	1/2"	2-3/8"	1/4"

\* Bearing supplied on shank for template routing (SBE120)

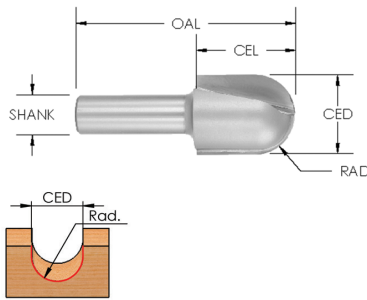
\*\*requires SBE152

## CORE BOX TEMPLATE



PART #	CED	CEL	SHANK	OAL	RADIUS	BEARING
SE1404B	1/2"	1/2"	1/4"	1-3/4"	1/4"	SBE145
SE1405B	5/8"	3/8"	1/4"	2"	5/16"	SBE130
SE1406BB	3/4"	5/8"	1/4"	1-7/8"	3/8"	SBE120

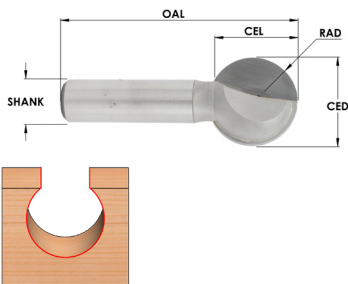
## CORE BOX BITS



PART #	CED	CEL	SHANK	OAL	RADIUS
SCRV275*	1/8"	5/16"	1/4"	2"	1/16"
SCRV277*	3/16"	3/8"	1/4"	2"	3/32"
SCRV279*	1/4"	3/8"	1/4"	2"	1/8"
SE1402	1/4"	1/2"	1/4"	1-7/8"	1/8"
SE1403	3/8"	1/2"	1/4"	1-3/4"	3/16"
SE1404	1/2"	1/2"	1/4"	1-3/4"	1/4"
SE1405	5/8"	3/8"	1/4"	2"	5/16"
SE1406	3/4"	5/8"	1/4"	1-7/8"	3/8"
SE1405A	5/8"	1/2"	1/2"	2-1/4"	5/16"
SE1406A	3/4"	5/8"	1/2"	2-3/8"	3/8"
SE1406B	7/8"	3/4"	1/2"	2-1/2"	7/16"
SE1406C	1"	3/4"	1/2"	2-1/2"	1/2"
SE1407	3/8"	1"	1/2"	2-5/8"	3/16"
SE1408	1/2"	1-1/4"	1/2"	2-7/8"	1/4"
SE1410	5/8"	1-1/4"	1/2"	3"	5/16"
SE1411	3/4"	1-1/4"	1/2"	2-3/4"	3/8"
SE1412	7/8"	1-1/4"	1/2"	2-7/8"	7/16"
SE1413	1"	1-1/4"	1/2"	2-3/4"	1/2"
SE1414	1-1/4"	1-1/4"	1/2"	3"	5/8"
SE1415	1-1/2"	1-1/4"	1/2"	3"	3/4"
SE1416	1-3/4"	1-1/4"	1/2"	3"	7/8"
SE1417	2"	1-1/4"	1/2"	3"	1"
SE1420	2-1/4"	5/8"	1/2"	2-1/2"	1-3/4"

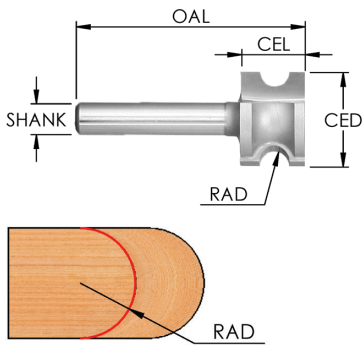
\*Solid Carbide Bits

## BALL END BITS



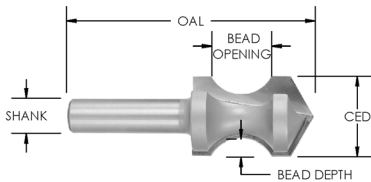
PART #	CED	CEL	SHANK	OAL	RADIUS
SE1450	3/8"	3/8"	1/4"	1-3/4"	3/16"
SE1452	1/2"	1/2"	1/4"	1-3/4"	1/4"
SE1460	1/2"	1/2"	1/2"	2-1/4"	1/4"
SE1462	3/4"	3/4"	1/2"	2-1/2"	3/8"
SE1464	1"	1"	1/2"	2-1/2"	1/2"

## BULL NOSE BITS



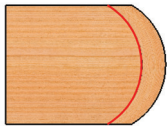
PART #	CEL	SHANK	OAL	OPENING	RADIUS
SE1425	1/2"	1/4"	1-3/4"	3/16"	3/32"
SE1426	5/8"	1/4"	1-7/8"	1/4"	1/8"
SE1427	11/16"	1/4"	2"	3/8"	3/16"
SE1428	7/8"	1/4"	2-1/8"	1/2"	1/4"
SE1429	1/2"	1/2"	1-7/8"	3/16"	3/32"
SE1430	5/8"	1/2"	2-1/8"	1/4"	1/8"
SE1431	11/16"	1/2"	2-3/16"	3/8"	3/16"
SE1432	7/8"	1/2"	2-3/8"	1/2"	1/4"
SE1432A	1"	1/2"	2-1/2"	5/8"	5/16"
SE1433	1-1/8"	1/2"	2-5/8"	3/4"	3/8"
SE1434	1-3/8"	1/2"	2-5/8"	1"	1/2"
SE1434A	1-1/2"	1/2"	3"	1-1/8"	9/16"
SE1435	1-3/4"	1/2"	3-1/4"	1-1/4"	5/8"
SE1436	1-7/8"	1/2"	3-3/8"	1-1/2"	3/4"

## PLUNGE HAND GRIP

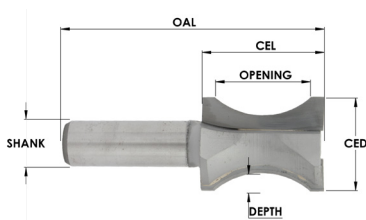


PART #	CED	CEL	SHANK	OAL	BEAD DEPTH	BEAD OPENING
SE1440	1-1/8"	1-5/8"	1/2"	3-1/2"	1/4"	7/8"
SE1440B*	1-1/8"	1-5/8"	1/2"	3-1/2"	1/4"	7/8"

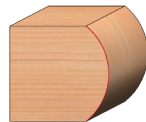
\*Uses SBE150 Bearing w/ collar for template guide routing



## OVAL EDGE (HALF-BULL NOSE)

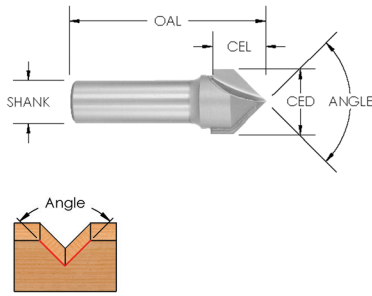


PART #	CED	CEL	SHANK	OAL	OPENING	DEPTH
SE1474	3/4"	1"	1/2"	2-1/2"	1/2"	1/8"
SE1476	1"	1-1/4"	1/2"	2-3/4"	3/4"	3/16"
SE1478	1"	1-1/4"	1/2"	2-3/4"	1"	3/16"
SE1480	1-1/4"	1-3/4"	1/2"	3-1/4"	1-1/2"	1/4"





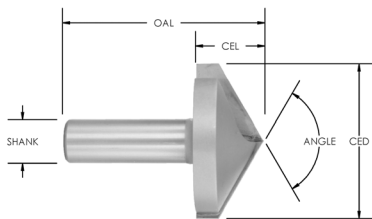
## V-GROOVE - 90°



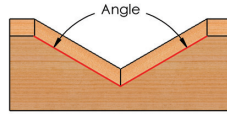
PART #	CED	CEL	SHANK	OAL	CUTTING HEIGHT
SCVG260*	1/4"	5/16"	1/4"	1-1/2"	1/8"
SE1501	3/8"	1/2"	1/4"	1-3/4"	3/16"
SE1502	1/2"	1/2"	1/4"	1-3/4"	7/32"
SE1502A	5/8"	5/8"	1/4"	2"	5/16"
SE1502B	3/4"	11/16"	1/4"	2"	3/8"
SE1503	1/2"	1/2"	1/2"	2-1/4"	1/4"
SE1504	3/4"	5/8"	1/2"	2-1/4"	3/8"
SE1505	1"	3/4"	1/2"	2-3/4"	7/16"
SE1507	1-1/2"	1"	1/2"	2-1/2"	3/4"
SE1508	2"	1-1/4"	1/2"	2-3/4"	1"

\*Solid Carbide and Single Flute

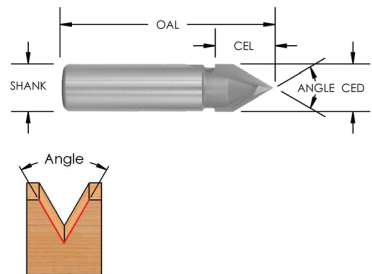
## V-GROOVE - 120°



PART #	CED	CEL	SHANK	OAL	CUTTING HEIGHT
SE1526	1-3/4"	1"	1/2"	2-1/4"	1/2"



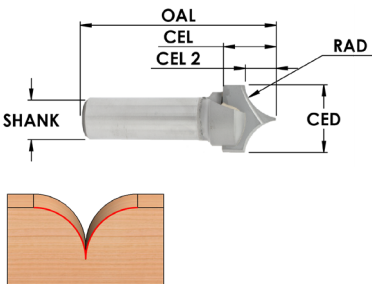
## V-GROOVE - 60°



PART #	CED	CEL	SHANK	OAL	FLUTE	CUTTING HEIGHT
SE1550	1/2"	1/2"	1/4"	2"	2	7/16"
SE1560	1/2"	1/2"	1/2"	2-1/4"	2	13/32"
SCVG264*	1/4"	7/32"	1/4"	1-1/2"	1	1/4"
SE1541*	1/4"	7/32"	1/4"	2"	3	3/16"

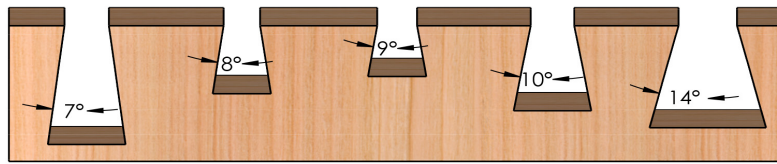
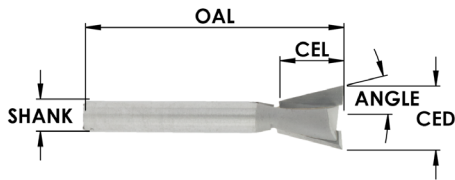
\*Solid Carbide Bits

## POINT CUTTING ROUNDOVER



PART #	CED	CEL 2	CEL	SHANK	OAL	RADIUS
SE1568	5/16"	1/8"	3/8"	1/4"	1-5/8"	1/8"
SE1570	3/8"	3/16"	3/8"	1/4"	2"	3/16"
SE1572	1/2"	1/4"	1/2"	1/4"	2"	1/4"
SE1574	3/4"	3/8"	5/8"	1/4"	2"	3/8"
SE1580	3/4"	3/8"	5/8"	1/2"	2-1/4"	3/8"
SE1582	3/4"	1/2"	5/8"	1/2"	2-1/4"	1/2"
SE1584	1-1/2"	3/4"	1"	1/2"	2-1/2"	3/4"

## DOVETAIL

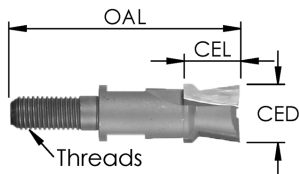


PART #	CED	CEL	SHANK	OAL	Use	(per side) ANGLE
SE1601	7/8"	5/8"	1/2"	2-1/2"	Stair Treads	3
SE1625	5/8"	7/8"	1/2"	2-5/8"	Incra®	7
SE1635	3/4"	7/8"	1/2"	2-3/4"	Incra®	7
SE1635LH	3/4"	7/8"	1/2"	2-3/4"	LH Rotation	7
SE1645	7/8"	7/8"	1/2"	2-3/4"	Stair Treads	7
SE1645LH	7/8"	7/8"	1/2"	2-3/4"	Stair Treads	7
SCDT7525*	1/4"	5/16"	1/4"	2"	Incra®/Omni Jig®	7-1/2
SE1661	5/16"	3/8"	1/4"	2-1/4"	Leigh® #60	8
SE1662	3/8"	1/2"	1/4"	2-3/8"	Leigh® #70	8
SE1663	7/16"	5/8"	1/4"	2-3/8"	Leigh® #75	8
SE1664	1/2"	13/16"	1/4"	2-3/4"	Leigh® #80	8
SE1666	11/16"	1"	1/2"	3"	Leigh® #90	8
SE1668	13/16"	1-1/4"	1/2"	3-1/4"	Leigh® #100	8
SE1605	3/8"	3/8"	1/4"	2-1/4"	Incra®	9
SE1613	3/8"	3/8"	3/8"	2"		9
SE1615	3/8"	3/8"	1/2"	2-1/2"		9
SE1615LH	3/8"	3/8"	1/2"	2-1/2"	Incra®	9
SE1618	0.390	3/8"	1/2"	2"		9
SE1618LH	0.390	3/8"	1/2"	2"		9
SE1672	1/2"	5/8"	1/4"	2-1/2"	Incra®/Leigh® #101	10
SE1674	1/2"	5/8"	1/2"	2-5/8"	Incra®	10
SE1611	3/8"	3/8"	1/4"	2"		14
SE1610	1/2"	1/2"	1/4"	2"	Incra®/Omni Jig®	14
SE1622	1/2"	1/2"	1/4"	2-3/8"	Leigh® #120	14
SE1620	1/2"	1/2"	1/2"	2-1/2"	Incra®/Omni Jig®	14
SE1620LH	1/2"	1/2"	1/2"	2-1/2"		14
SE1630	3/4"	3/4"	1/2"	3"	Omni Jig®	14
SE1640	1"	7/8"	1/2"	2-1/2"		14
SE1680	1/2"	3/8"	1/4"	2-1/4"	Leigh® #128	18

\*Solid Carbide Bits

LH - Left-Hand Rotation

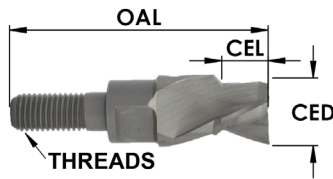
## DOVETAIL BITS FOR DODDS® MACHINE



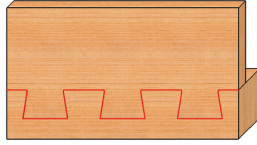
PART #	CED	SHANK	OAL	ANGLE	FLUTE
SE1690R	.550"	5/16"-24	2"	9	2
SE1690L	.550"	5/16"-24	2"	9	2
SE1695R	.550"	3/8"-24	2"	9	2
SE1695L	.550"	3/8"-24	2"	9	2



## SOLID CARBIDE DOVETAIL BITS FOR DODDS® MACHINE

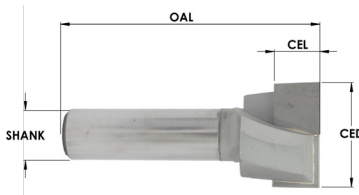


PART #	CED	SHANK	OAL	ANGLE	FLUTE
SC1690R*	.550"	5/16"-24	2"	9	3
SC1690L*	.550"	5/16"-24	2"	9	3

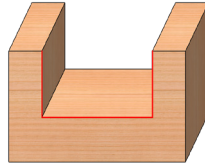


\*Solid Carbide and 3-Flute

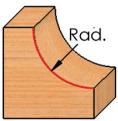
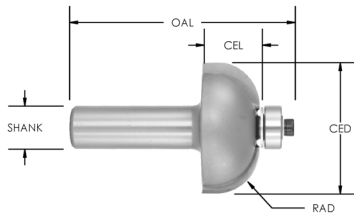
## STAIR TREAD AND BOTTOM CLEANING



PART #	CED	CEL	SHANK	OAL
SE1590	3/4"	1/2"	1/4"	2"
SE1592	3/4"	1/2"	1/2"	2-1/2"
SE1596	1"	1/2"	1/2"	2-1/2"
SE1598	1-1/2"	1/2"	1/2"	2-1/2"



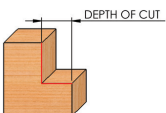
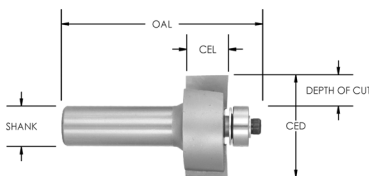
## COVE BITS



PART #	CED	CEL	SHANK	RADIUS
SE1800B	3/4"	1/4"	1/4"	1/8"
SE1800A	7/8"	1/2"	1/4"	3/16"
SE1800	1"	1/2"	1/4"	1/4"
SE1801A	1-1/8"	1/2"	1/4"	5/16"
SE1801	1-1/4"	1/2"	1/4"	3/8"
SE1802	1-1/2"	5/8"	1/4"	1/2"
SE1803A	7/8"	1/2"	1/2"	3/16"
SE1803	1"	1/2"	1/2"	1/4"
SE1804A	1-1/8"	1/2"	1/2"	5/16"
SE1804	1-1/4"	1/2"	1/2"	3/8"
SE1805	1-1/2"	5/8"	1/2"	1/2"
SE1806	1-3/4"	3/4"	1/2"	5/8"
SE1807	2"	1"	1/2"	3/4"
SE1810	2-1/2"	1-1/4"	1/2"	1"

Uses SBE115 Bearing

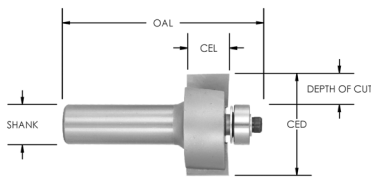
## RABBET BITS



PART #	CED	CEL	SHANK	OAL	DEPTH	BEARING
SE1900	1-1/4"	1/2"	1/4"	2-1/8"	3/8"	SBE115
SE1901	1-1/4"	1/2"	1/2"	2-3/8"	3/8"	SBE115
SE1951	1-3/8"	1/2"	1/4"	2-1/8"	1/2"	SBE110
SE1954	1-3/8"	1/2"	1/2"	2-3/8"	1/2"	SBE110
SE1962	2"	1"	1/2"	2-7/8"	3/4"	SBE115

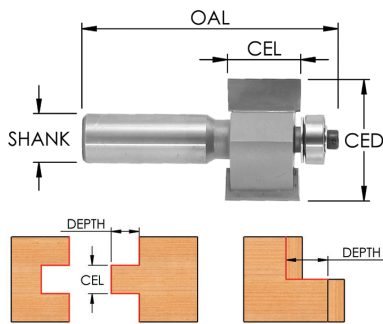
\*For different depths of cut, see kits next page.

## RABBET BIT KITS



PART #	CED	CEL	SHANK	OAL	KIT INCLUDES
SE1902	1-1/4"	1/2"	1/4"	2-1/8"	Includes SE1900 and 3 additional bearings for multiple depths of 1/4", 5/16", 3/8", 7/16"
SE1903	1-1/4"	1/2"	1/2"	2-3/8"	Includes SE1901 and 3 additional bearings for multiple depths of 1/4", 5/16", 3/8", 7/16"
SE1965	2"	1"	1/2"	2-7/8"	Includes SE1962 and 7 additional bearings for multiple depths of 1/2", 9/16", 21/32", 19/32", 5/8", 11/16", 3/4", 13/16"

## SLOTTING - 2 FLUTE

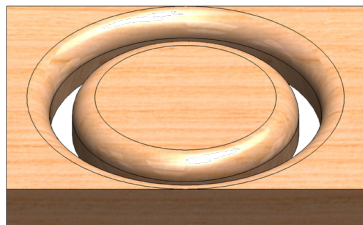
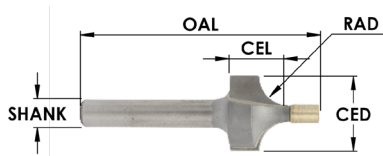


PART #	CED	CEL	SHANK	DEPTH
SE1904	1-1/4"	1/8"	1/4"	3/8"
SE1908	1-1/2"	5/32"	1/4"	1/2"
SE1912	1-1/4"	1/4"	1/4"	3/8"
SE1913	1-1/4"	5/16"	1/4"	3/8"
SE1916	1-1/4"	3/8"	1/4"	3/8"
SE1920	1-1/2"	1/2"	1/4"	1/2"
SE1906	1-1/4"	1/8"	1/2"	3/8"
SE1910	1-1/2"	5/32"	1/2"	1/2"
SE1914	1-1/4"	1/4"	1/2"	3/8"
SE1917	1-1/4"	5/16"	1/2"	3/8"
SE1918	1-1/4"	3/8"	1/2"	3/8"
SE1922	1-1/2"	1/2"	1/2"	1/2"
SE1924	1-1/4"	3/4"	1/2"	3/8"
SE1980*	1-1/8"	3/16"	5/16"	3/8"

Uses SBE115 Bearing

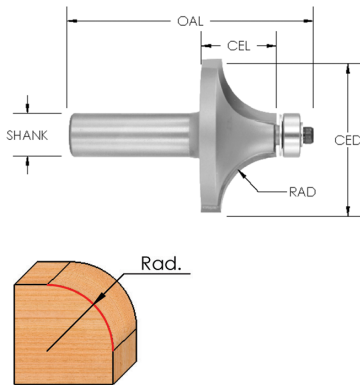
\*3 Flute - For Tyler® Machine (No Bearing)

## SMALL PILOT ROUNDOVER



PART #	CED	CEL	SHANK	OAL	RADIUS
SE1978	3/8"	7/16"	1/4"	2"	1/16"
SE1981	3/8"	7/16"	1/4"	2"	1/8"
SE1982	5/8"	1/2"	1/4"	2-1/8"	1/4"
SE1984	7/8"	5/8"	1/4"	2-1/4"	3/8"

## ROUND OVER BITS



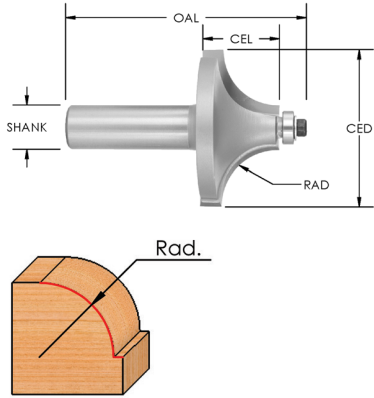
PART #	CED	CEL	SHANK	RADIUS
SE2000A	5/8"	1/4"	1/4"	1/16"
SE2000C	3/4"	1/2"	1/4"	1/8"
SE2000D	13/16"	1/2"	1/4"	5/32"
SE2000	7/8"	1/2"	1/4"	3/16"
SE2001	1"	1/2"	1/4"	1/4"
SE2002	1-1/8"	1/2"	1/4"	5/16"
SE2003	1-1/4"	5/8"	1/4"	3/8"
SE2003A	1-3/8"	11/16"	1/4"	7/16"
SE2004	1-1/2"	3/4"	1/4"	1/2"
SE2005A	3/4"	1/2"	1/2"	1/8"
SE2005	7/8"	1/2"	1/2"	3/16"
SE2006	1"	1/2"	1/2"	1/4"
SE2007	1-1/8"	1/2"	1/2"	5/16"
SE2008	1-1/4"	5/8"	1/2"	3/8"
SE2008A	1-3/8"	11/16"	1/2"	7/16"
SE2009	1-1/2"	3/4"	1/2"	1/2"
SE2009B	1-5/8"	7/8"	1/2"	9/16"
SE2009A	1-3/4"	1"	1/2"	5/8"
SE2010	2"	1"	1/2"	3/4"
SE2011	2-1/4"	1-1/8"	1/2"	7/8"
SE2012	2-1/2"	1-5/16"	1/2"	1"
SE2013*	3"	1 1/2"	1/2"	1-1/8"
SE2014*	3-1/4"	1-3/4"	1/2"	1-1/4"
SE2015*	3-1/2"	1-3/4"	1/2"	1-3/8"
SE2016*	3-3/4"	1-7/8"	1/2"	1-1/2"

Use SBE115 Bearing and SDS115 Dust Shield  
\* Use SBE120 Bearing and SDS120 Dust Shield





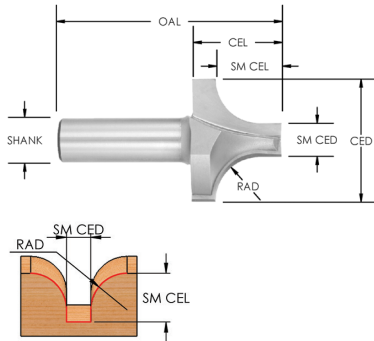
## BEADING BITS



PART #	CED	CEL	SHANK	RADIUS
SEBE2000A	5/8"	1/2"	1/4"	1/16"
SEBE2000C	3/4"	1/2"	1/4"	1/8"
SEBE2000D	13/16"	1/2"	1/4"	5/32"
SEBE2000	7/8"	1/2"	1/4"	3/16"
SEBE2001	1"	1/2"	1/4"	1/4"
SEBE2002	1-1/8"	1/2"	1/4"	5/16"
SEBE2003	1-1/4"	5/8"	1/4"	3/8"
SEBE2003A	1-3/8"	11/16"	1/4"	7/16"
SEBE2004	1-1/2"	3/4"	1/4"	1/2"
SEBE2005A	3/4"	1/2"	1/2"	1/8"
SEBE2005	7/8"	1/2"	1/2"	3/16"
SEBE2006	1"	1/2"	1/2"	1/4"
SEBE2007	1-1/8"	1/2"	1/2"	5/16"
SEBE2008	1-1/4"	5/8"	1/2"	3/8"
SEBE2008A	1-3/8"	11/16"	1/2"	7/16"
SEBE2009	1-1/2"	3/4"	1/2"	1/2"
SEBE2009B	1-5/8"	7/8"	1/2"	9/16"
SEBE2009A	1-3/4"	1"	1/2"	5/8"
SEBE2010	2"	1"	1/2"	3/4"
SEBE2011	2-1/4"	1-1/8"	1/2"	7/8"
SEBE2012	2-1/2"	1-5/16"	1/2"	1"
SEBE2013*	3"	1-1/2"	1/2"	1-1/8"
SEBE2014*	3-1/4"	1-3/4"	1/2"	1-1/4"
SEBE2015*	3-1/2"	1-3/4"	1/2"	1-3/8"
SEBE2016*	3-1/2"	1-7/8"	1/2"	1-1/2"

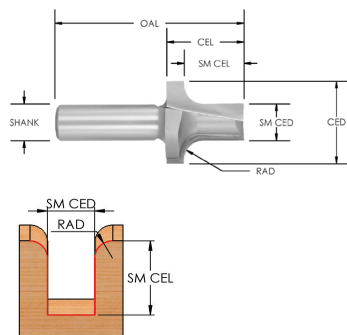
Use SBE110 Bearing  
\* Use SBE130 Bearing

## BORING POINT ROUNDOVER



PART #	CED	SM CEL	CEL	SHANK	RADIUS	SM. CED
SE2050	3/8"	1/8"	3/8"	1/4"	1/8"	1/8"
SE2051	5/8"	3/16"	7/16"	1/4"	3/16"	1/4"
SE2052	3/4"	1/4"	3/8"	1/4"	1/4"	1/4"
SE2055	3/4"	1/4"	1/2"	1/2"	1/4"	1/4"
SE2056	3/4"	3/8"	9/16"	1/2"	1/4"	1/4"
SE2057	1"	5/16"	1/2"	1/2"	3/8"	1/4"
SE2058	1"	1/2"	3/4"	1/2"	3/8"	1/4"
SE2060	1-3/8"	3/4"	1"	1/2"	1/2"	3/8"
SE2062	1-5/8"	1"	1-1/4"	1/2"	9/16"	1/2"
SE2066	2"	1-1/8"	1-3/8"	1/2"	3/4"	1/2"

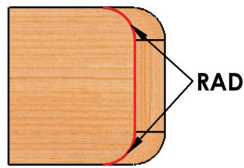
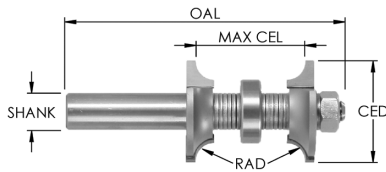
## BORING POINT ROUNDOVER AND EDGE



PART #	CED	CEL	SHANK	RADIUS	SM CED
SE2068	1"	13/16"	1/2"	3/16"	1/2"
SE2070	1"	1-5/16"	1/2"	3/16"	1/2"
SE2072	1-1/8"	13/16"	1/2"	1/4"	1/2"
SE2074	1-1/8"	1-5/16"	1/2"	1/4"	1/2"
SE2076	1-3/8"	13/16"	1/2"	3/8"	1/2"
SE2078	1-3/8"	1-5/16"	1/2"	3/8"	1/2"

Cutting length does not include the flat on large diameter

## DOUBLE ROUND OVER

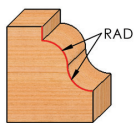
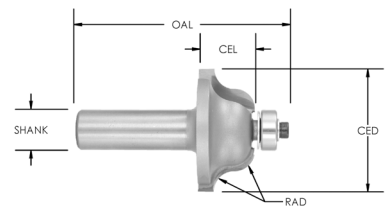


PART #	CED	SHANK	OAL	RADIUS
SE2160	1-1/8"	1/2"	3-3/4"	1/8"
SE2162	1-1/4"	1/2"	3-3/4"	3/16"
SE2164	1-3/8"	1/2"	3-3/4"	1/4"

PART #	CED	RADIUS	Description
SE2160RH	1-1/8"	1/8"	Cutters Only Right-Hand
SE2160LH	1-1/8"	1/8"	Cutters Only Left-Hand
SE2162RH	1-1/4"	3/16"	Cutters Only Right-Hand
SE2162LH	1-1/4"	3/16"	Cutters Only Left-Hand
SE2164RH	1-3/8"	1/4"	Cutters Only Right-Hand
SE2164LH	1-3/8"	1/4"	Cutters Only Left-Hand
SBE125			Bearing Only
SE21-ARBOR			Arbor Only

Above are the Replacement Parts for the Double Roundover Bits

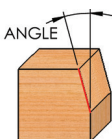
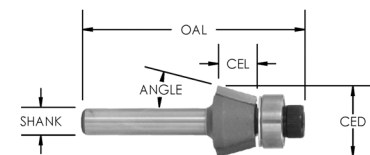
## ROMAN OGEE



PART #	CED	CEL	SHANK	RADIUS
SE2200	1-1/8"	9/16"	1/4"	5/32"
SE2201	1-1/2"	11/16"	1/4"	1/4"
SE2202	1-1/8"	9/16"	1/2"	5/32"
SE2203	1-1/2"	11/16"	1/2"	1/4"
SE2210	2"	1"	1/2"	3/8"

Uses SBE115 bearing

## BEVEL/LAMINATE TRIM

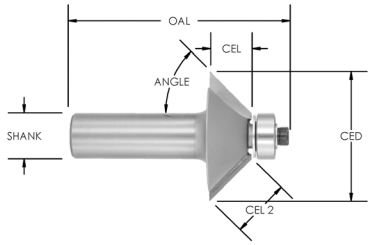


PART #	CEL	CUTTING HEIGHT	SHANK	DEGREE
SE2298*	3/8"	3/8"	1/4"	7°
SE2300	1/2"	1/2"	1/4"	15°
SE2300A	1/4"	1/4"	1/4"	15°
SE2300B	3/8"	3/8"	1/4"	22°
SE2301	1/2"	7/16"	1/4"	25°

Use SBE115 Bearing  
\*Use SBE110 Bearing

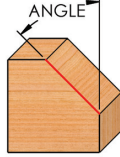


## CHAMFER - 45°

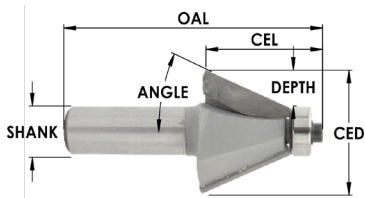


PART #	CEL	SHANK	CUT HEIGHT	DEGREE
SE2302	5/8"	1/4"	7/16"	45°
SE2305	5/8"	1/2"	7/16"	45°
SE2306	1-1/8"	1/2"	13/16"	45°
SE2310	1-1/2"	1/2"	1-1/16"	45°

Use SBE115 Bearing

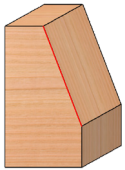


## CHAMFER - 22-1/2° & 30°

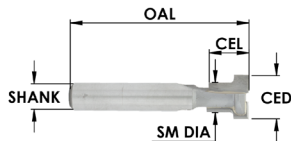


PART #	CEL	SHANK	CUT HEIGHT	ANGLE
SE2307	15/16"	1/2"	7/8"	22 1/2°
SE2308A	7/16"	1/4"	3/8"	30°
SE2309	1"	1/2"	7/8"	30°
SE2315	3/8"	1/2"	3/8"	22 1/2°

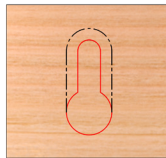
Use SBE115 Bearing



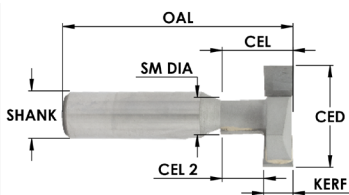
## KEYHOLE - 2 FLUTE



PART #	CED	CEL	SHANK	OAL	SM DIA
SE3050	3/8"	3/8"	1/4"	1-1/2"	1/4"
SE3052	1/2"	1/2"	1/4"	1-3/4"	3/8"



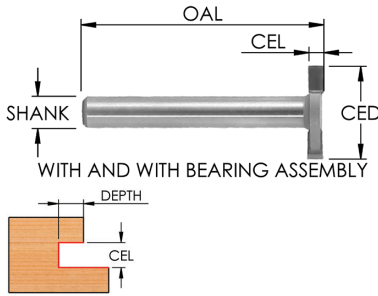
## T-SLOT - SLAT WALL



PART #	CED	CEL	SHANK	OAL	SM DIA	KERF	CEL 2
SE3070	1-1/16"	13/16"	1/2"	2-3/8"	3/8"	5/16"	1/2"
SE3075	1-3/16"	5/8"	1/2"	2-3/8"	3/8"	1/4"	3/8"



## SLOT AND UNDERCUT



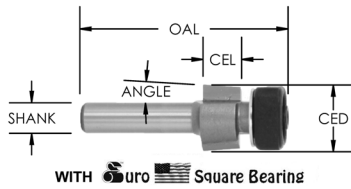
PART #	CED	CEL	SHANK	OAL	CUTTING DEPTH	FLUTES
SE3094	3/4"	1/8"	1/4"	1-7/8"	1/4"	2
SE3098	1"	1/4"	1/4"	2"	3/8"	2
SE3100	1-1/4"	1/4"	1/4"	1-3/4"	1/2"	2
SE3110	1-1/2"	1/4"	1/4"	2"	5/8"	2
SE3114*	21mm	3mm	1/4"	1-7/8"	7.325mm	3

Add B to Part# for Bearing on Shank

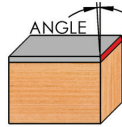
\*For Laminate Flooring

Part # with Bearing use a SBE145 Bearing

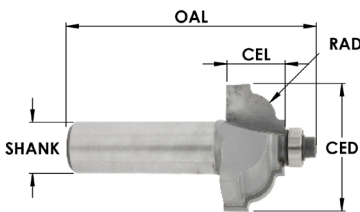
## EURO TRIM BITS



PART #	CED	CEL	SHANK	OAL	BEARING
SE2530	1/2"	1/4"	1/4"	1-5/8"	SBE115-ES
SE2532	3/4"	5/8"	1/4"	2-1/4"	SBE140-ES
SE2538	3/4"	5/8"	1/2"	2-1/4"	SBE140-ES

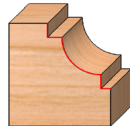


## CLASSICAL COVE

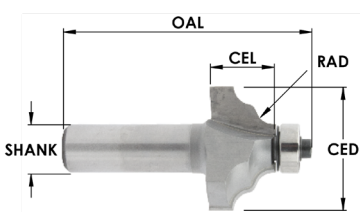


PART #	CED	CEL	SHANK	RAD
SE3160	15/16"	1/2"	1/4"	1/8"
SE3162	1-3/16"	9/16"	1/4"	1/4"
SE3164	15/16"	1/2"	1/2"	1/8"
SE3166	1-3/16"	9/16"	1/2"	1/4"

Use SBE110 Bearing

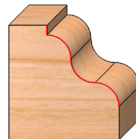


## WAVY EDGE

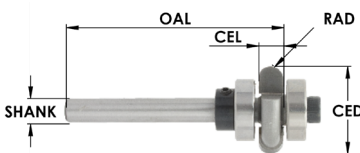


PART #	CED	CEL	SHANK	RAD
SE3170	1-1/4"	3/4"	1/4"	5/32"
SE3172	1-1/4"	3/4"	1/2"	5/32"

Use SBE115 Bearing

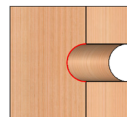


## RADIUS EDGE

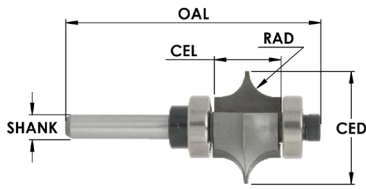


PART #	CED	CEL	SHANK	OAL	RAD
SE3180	7/8"	1/4"	1/4"	2-5/8"	1/8"
SE3182	1"	3/8"	1/4"	2-3/4"	3/16"

Use SBE130 Bearing

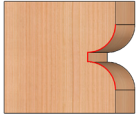


## FULL BEAD

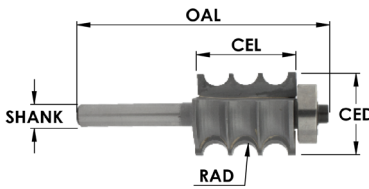


PART #	CED	CEL	SHANK	RAD
SE3190	7/8"	3/8"	1/4"	1/8"
SE3192	1"	1/2"	1/4"	3/16"
SE3194	1-1/8"	5/8"	1/4"	1/4"
SE3196	1-3/8"	7/8"	1/4"	3/8"

Use SBE130 Bearing

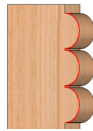


## TRIPLE BEAD

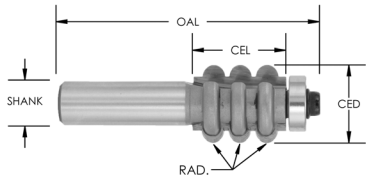


PART #	CED	CEL	SHANK	RAD
SE3200	7/8"	1"	1/4"	1/8"
SE3202	7/8"	1"	1/2"	1/8"

Use SBE130 Bearing

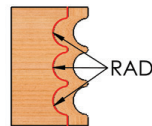


## TRIPLE FLUTE

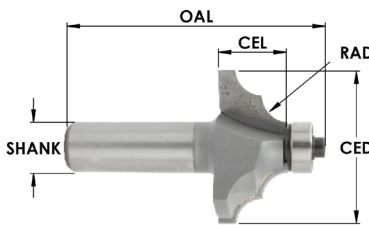


PART #	CED	CEL	SHANK	RAD
SE3203	7/8"	1"	1/4"	1/8"
SE3204	7/8"	1"	1/2"	1/8"

Use SBE130 Bearing

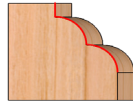


## DOUBLE ROUND

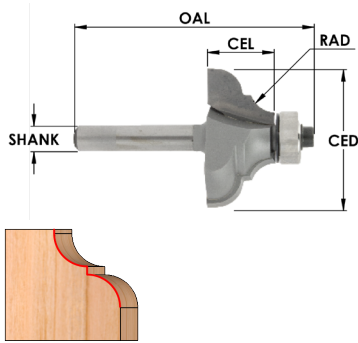


PART #	CED	CEL	SHANK	RAD
SE3205	1-1/8"	1/2"	1/4"	5/32"
SE3206	1-1/2"	11/16"	1/4"	1/4"
SE3207	1-1/8"	1/2"	1/2"	5/32"
SE3207A	1-3/8"	11/16"	1/2"	7/32"
SE3208	1-1/2"	11/16"	1/2"	1/4"

Use SBE115 Bearing



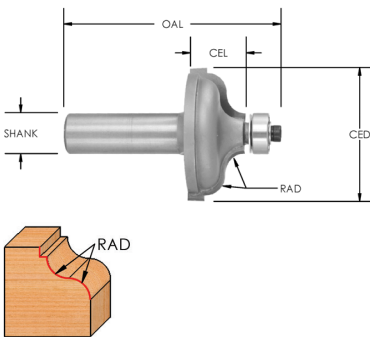
## COVE AND BEAD



PART #	CED	CEL	SHANK	RAD
SE3209	1-1/8"	1/2"	1/4"	5/32"
SE3210	1-5/16"	5/8"	1/4"	1/4"
SE3211	1-1/8"	1/2"	1/2"	5/32"
SE3212	1-5/16"	5/8"	1/2"	1/4"
SE3282	2"	1-3/16"	1/2"	3/8"

Use SBE115 Bearing

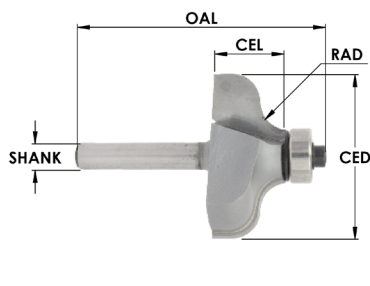
## OGEE FILLET



PART #	CED	CEL	SHANK	RAD
SE3214	1-3/8"	9/16"	1/4"	3/16"
SE3215	1-5/8"	11/16"	1/4"	1/4"
SE3216	1-3/8"	9/16"	1/2"	3/16"
SE3218	1-5/8"	11/16"	1/2"	1/4"

Use SBE115 Bearing

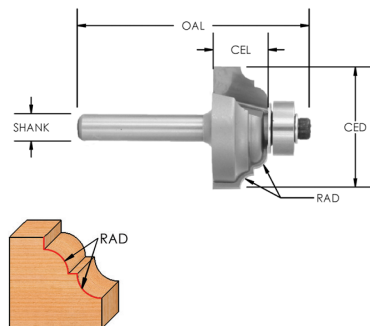
## OGEE BITS



PART #	CED	CEL	SHANK	RAD
SE3220	1-1/8"	1/2"	1/4"	5/32"
SE3224	1-1/2"	11/16"	1/4"	1/4"
SE3222	1-1/8"	1/2"	1/2"	5/32"
SE3226	1-1/2"	11/16"	1/2"	1/4"

Use SBE115 Bearing

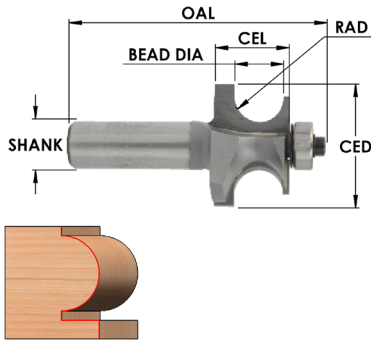
## CLASSICAL PATTERN



PART #	CED	CEL	SHANK	RAD
SE3230	1"	1/2"	1/4"	1/8"
SE3234	1-1/4"	5/8"	1/4"	3/16"
SE3232	1"	1/2"	1/2"	1/8"
SE3236	1-1/4"	5/8"	1/2"	3/16"

Use SBE110 Bearing

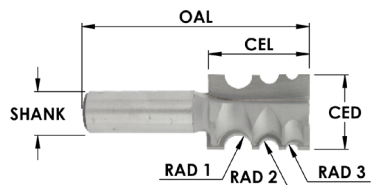
## EDGE BEADING



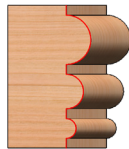
PART #	CED	CEL	SHANK	RADIUS	BEAD DIA
SE3241	13/16"	1/2"	1/4"	3/32"	3/16"
SE3244	7/8"	9/16"	1/4"	1/8"	1/4"
SE3248	15/16"	5/8"	1/4"	5/32"	5/16"
SE3252	1"	5/8"	1/4"	3/16"	3/8"
SE3256	1-1/4"	3/4"	1/4"	1/4"	1/2"
SE3243	13/16"	1/2"	1/2"	3/32"	3/16"
SE3246	7/8"	9/16"	1/2"	1/8"	1/4"
SE3250	15/16"	5/8"	1/2"	5/32"	5/16"
SE3254	1"	5/8"	1/2"	3/16"	3/8"
SE3258	1-1/4"	3/4"	1/2"	1/4"	1/2"

Use SBE115 Bearing

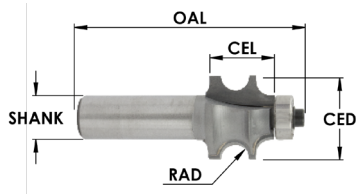
## VARIABLE BEADING



PART #	CED	CEL	SHANK	RAD 1	RAD 2	RAD 3
SE3273	7/8"	1-1/8"	1/2"	5/32"	7/64"	1/16"

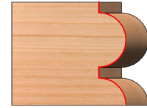


## LARGE BEAD

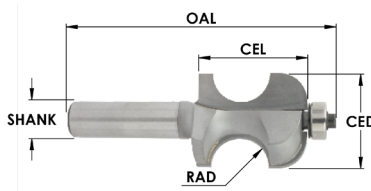


PART #	CED	CEL	SHANK	RADIUS
SE3274	15/16"	5/8"	1/2"	5/32"
SE3276	1-1/4"	1-7/16"	1/2"	3/8"

Use SBE115 Bearing

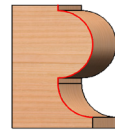


## BEAD AND COVE

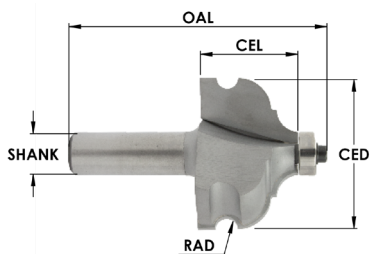


PART #	CED	CEL	SHANK	RADIUS
SE3278	1-1/4"	1-7/16"	1/2"	3/8"

Use SBE115 Bearing



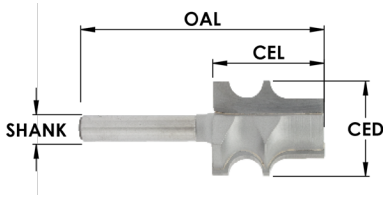
## MOLDING BITS



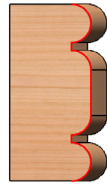
PART #	CED	CEL	SHANK	BEAD DIAMETER
SE3280	1-3/4"	1-1/8"	1/2"	1/4"
SE3281	1-1/4"	15/16"	1/2"	1/4"
SE3284	1-1/4"	13/16"	1/2"	3/16"

Use SBE115 Bearing

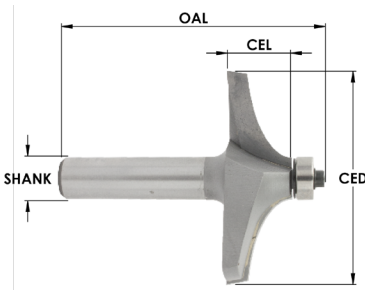
## TAPER REED



PART #	CED	CEL	SHANK	RAD
SE3286	7/8"	1"	1/4"	5/32"
SE3288	7/8"	1"	1/2"	5/32"

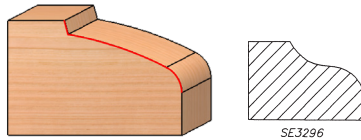


## TABLE EDGE

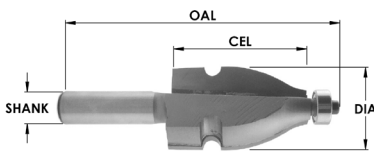


PART #	CED	CEL	SHANK	DEPTH
SE3294	2-1/2"	3/4"	1/2"	1"
SE3296	2-1/2"	3/4"	1/2"	1"

Use SBE115 Bearing



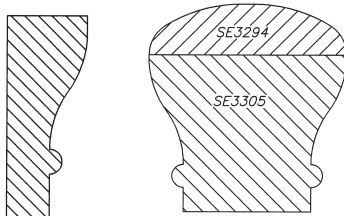
## HANDRAIL BIT



PART #	CED	CEL	SHANK	OAL	BEAD DIA
SE3305	1-1/4"	2"	1/2"	4"	1/4"

Use SBE115 Bearing

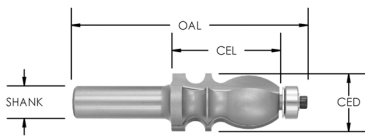
With the combination of SE3294 and SE3305 you can make this style handrail.



SE3305

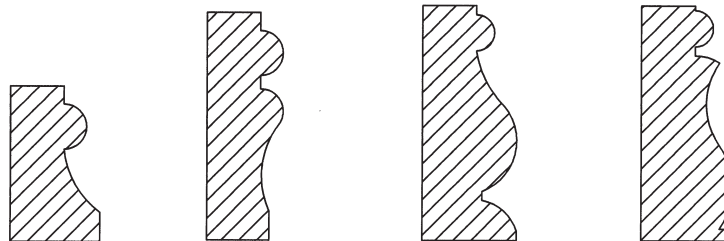
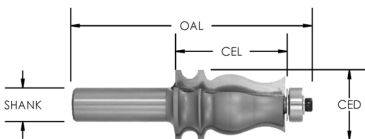
Have a different handrail in mind? Have Southeast Tool quote the router bits or shaper cutters, fax a drawing, or mail a wood sample to Southeast Tool.

## SPECIALTY MOLDING



PART #	CED	CEL	SHANK	OAL	BEAD DIA
SE3320	1"	7/8"	1/2"	2-1/2"	5/16"
SE3324	15/16"	1-3/8"	1/2"	3"	5/16"
SE3326	1-1/16"	1-5/8"	1/2"	3-1/4"	1/4"
SE3330	1"	1-11/16"	1/2"	3-5/16"	1/4"

Use SBE115 Bearing



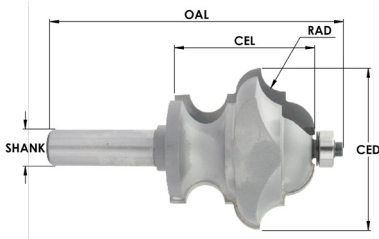
SE3320

SE3324

SE3326

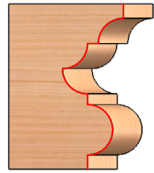
SE3330

## CLASSICAL MULTIFORM

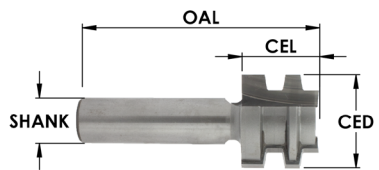


PART #	CED	CEL	SHANK	RADIUS
SE3342	2-1/4"	1-7/8"	1/2"	7/32"

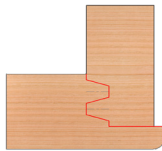
Use SBE115 Bearing



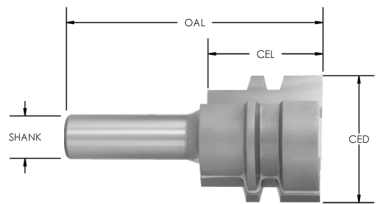
## DRAWER LOCK



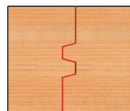
PART #	CED	CEL	SHANK	OAL
SE3350	1-1/16"	3/4"	1/4"	2-5/16"
SE3352	1-1/16"	3/4"	1/2"	2-9/16"



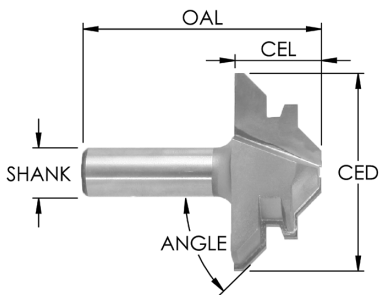
## GLUE JOINT



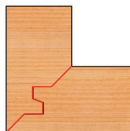
PART #	CED	CEL	SHANK	MATERIAL THICKNESS
SE3354	1-1/2"	1-1/4"	1/2"	1/2" - 1-1/4"



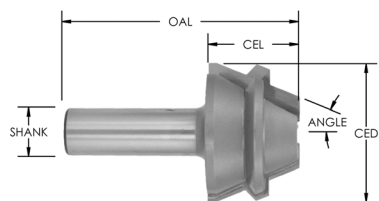
## 45° LOCK MITER



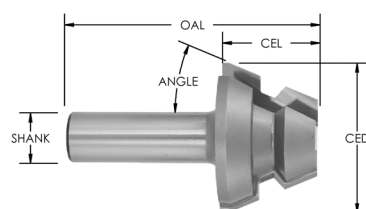
PART #	CED	CEL	SHANK	MAX MATERIAL
SE3360	1-3/4"	3/4"	1/2"	5/8"
SE3362	3-1/2"	1-5/8"	1/2"	1-1/2"



## LOCK MITER SET - 22.5°

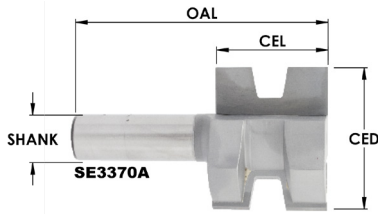


PART #	CED	CEL	SHANK	OAL	MATERIAL THICKNESS
SE3364	1-15/32"	15/16"	1/2"	2-1/4"	3/8" - 7/8"

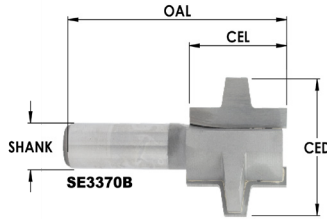




## WEDGE TONGUE AND GROOVE



PART #	CED	CEL	SHANK	OAL	MATERIAL THICKNESS
SE3370	1-1/2"	1-1/8"	1/2"	2-5/8"	1/2" - 1-1/8"

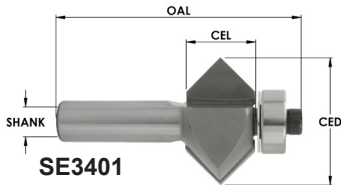


*2-Piece Set*

*To order individually:  
SE3370A - Tongue  
SE3370B - Groove*



## EDGE BANDING SET



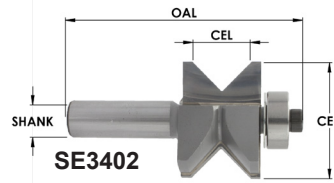
PART #	CED	CEL	SHANK	OAL
SE3400	SET INCLUDES SE3401 AND SE3402			
SE3401	1-1/2"	25/32"	1/2"	2-7/8"
SE3402	1-17/32"	25/32"	1/2"	3-1/16"

*Use SBE124 Bearing*

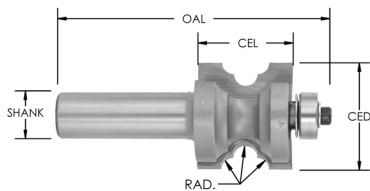


SE3401

SE3402

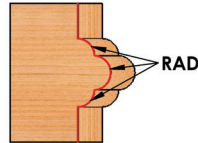


## BEAUTY MOLDING

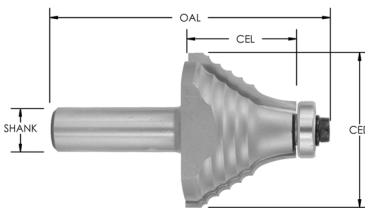


PART #	CED	CEL	SHANK	OAL	RAD
SE3310	1-1/8"	1"	1/2"	2-15/16"	1/8"

*Use SBE115 Bearing*

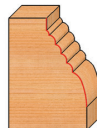


## BEADED PICTURE FRAME MOLDING

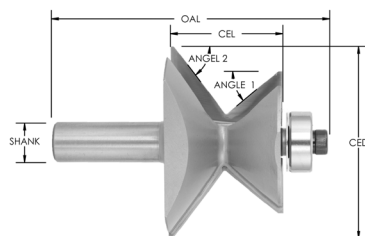


PART #	CED	CEL	SHANK	OAL
SE3315	1-11/16"	1-3/16"	1/2"	3-1/16"

*Use SBE130 Bearing*

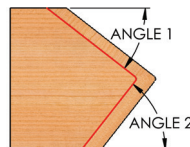


## CROWN MOLDING EDGE TRIM

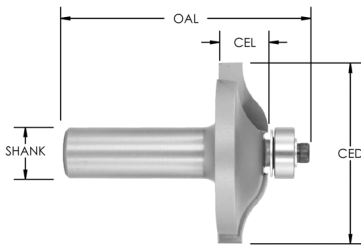


PART #	CED	CEL	SHANK	OAL	ANGLE 1	ANGLE 2
SE3318	2-3/8"	1-3/8"	1/2"	3-3/8"	38°	52°

*Use SBE124 Bearing*

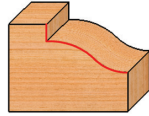


## ELLIPSE OGEE

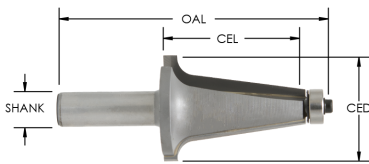


PART #	CED	CEL	SHANK	OAL
SE3265	1-3/4"	1/2"	1/4"	2-1/8"
SE3266	1-3/4"	1/2"	1/2"	2-1/8"

Use SBE115 Bearing



## FURNITURE/BOX MAKER

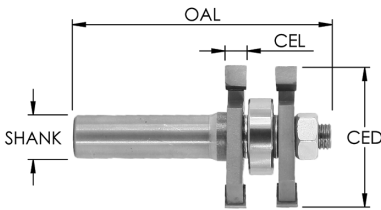


PART #	CED	CEL	SHANK	OAL
SE3525	1-1/2"	1-5/8"	1/2"	3-15/16"

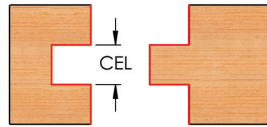
Use SBE115 Bearing



## TONGUE AND GROOVE ASSEMBLY

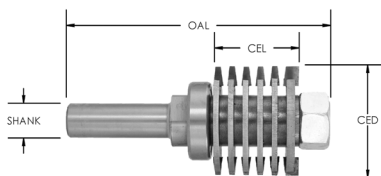


PART #	CED	CEL	SHANK	MATERIAL THICKNESS	BEARING
SE3375	1-5/8"	9/32"	1/2"	1/2" to 13/16"	SBE125

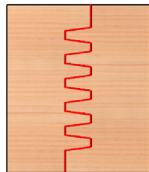


PART #	CED	Description
SE3375G	1-5/8"	Slotting Cutter
SAR500-1716		Arbor
SBE125		Bearing
SESK-012		Shim Kit

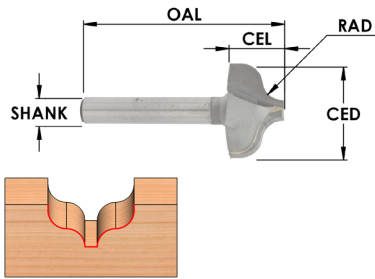
## FINGER JOINT ASSEMBLY



PART #	CED	CEL	SHANK	DEPTH	BEARING
SE3385	1-9/16"	1-1/4"	1/2"	7/32"	SBE150

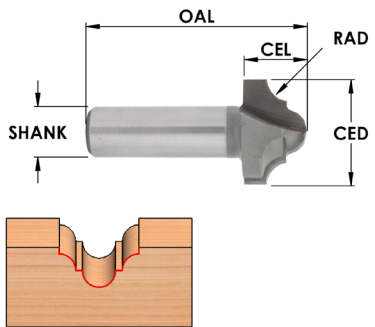


## PLUNGE OGEE



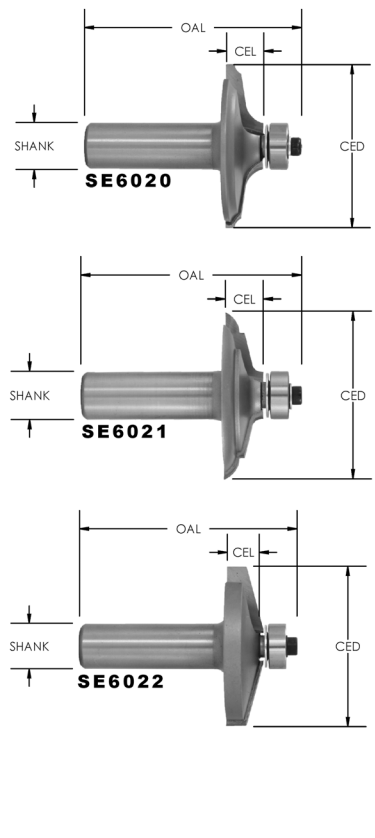
PART #	CED	CEL	SHANK	RAD
SE3601	3/8"	3/8"	1/4"	1/16"
SE3602	1/2"	3/8"	1/4"	3/32"
SE3603	3/4"	7/16"	1/4"	1/8"
SE3604	7/8"	1/2"	1/4"	3/16"
SE3605	3/8"	3/8"	1/2"	1/16"
SE3605A	1/2"	3/8"	1/2"	3/32"
SE3605B	3/4"	7/16"	1/2"	1/8"
SE3606	7/8"	5/8"	1/2"	3/16"
SE3608	1-1/4"	11/16"	1/2"	3/16"

## CLASSICAL ROUND BOTTOM



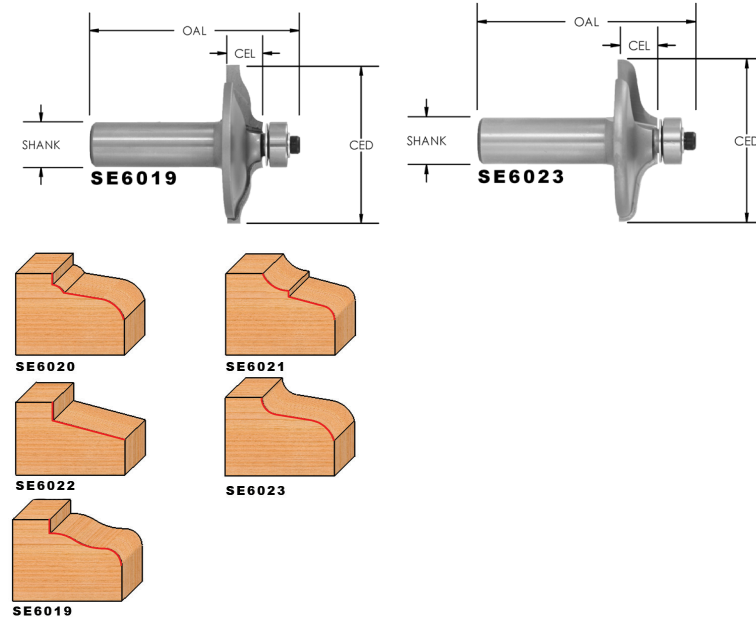
PART #	CED	CEL	SHANK	RAD
SE3719	1/2"	3/8"	1/4"	3/32"
SE3728	3/4"	1/2"	1/4"	5/32"
SE3733	3/4"	1/2"	1/2"	5/32"
SE3738	1"	5/8"	1/2"	7/32"
SE3752	1-1/2"	3/4"	1/2"	3/8"

## DOOR EDGE PROFILE

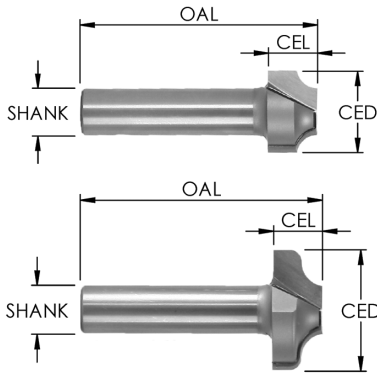


PART #	CED	CEL	SHANK	OAL
SE6019	1-3/4"	7/16"	1/2"	2-5/16"
SE6020	1-3/4"	7/16"	1/2"	2-5/16"
SE6021	1-3/4"	7/16"	1/2"	2-5/16"
SE6022	1-3/4"	7/16"	1/2"	2-5/16"
SE6023	1-3/4"	7/16"	1/2"	2-5/16"

Use SBE115 Bearing

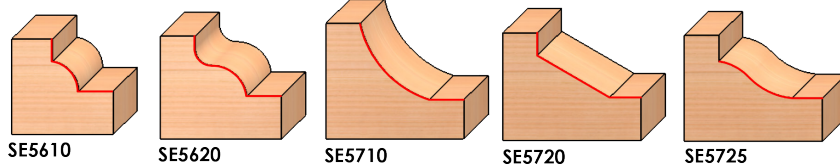


## MDF DOOR BITS

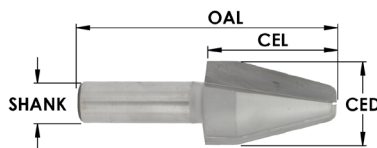


PART #	CED	CEL	SHANK	OAL	STYLE	DESCRIPTION
SE5610	7/8"		1/2"	2-1/2"	Bead	Stile Profile
SE5620	1-1/4"		1/2"	2-1/2"	Traditional	
SE5710	1-1/2"		1/2"	2-1/2"	Cove	Panel Profile
SE5720	1-1/2"		1/2"	2-1/2"	Straight	
SE5725	1-1/2"		1/2"	2-1/2"	Ogee	

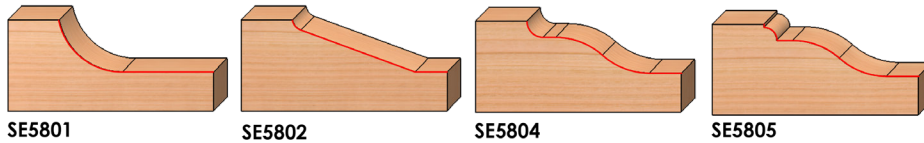
*Tools can be made in Insert and PCD Diamond Tipped - Call for Pricing*



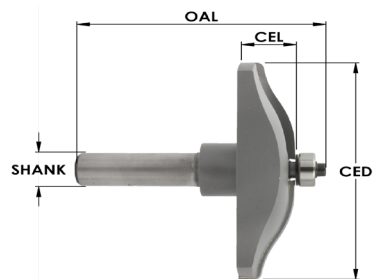
## VERTICAL PANEL



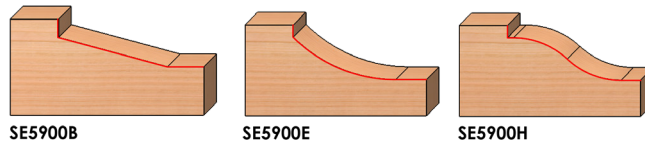
PART #	CED	CEL	SHANK	STYLE
SE5801	1"	1-1/2"	1/2"	Cove
SE5802	1"	1-1/2"	1/2"	Straight
SE5804	1"	1-1/2"	1/2"	Ogee
SE5805	1"	1-1/2"	1/2"	Ogee Bead



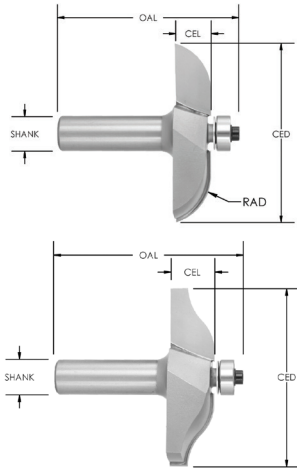
## RAISED PANEL BITS



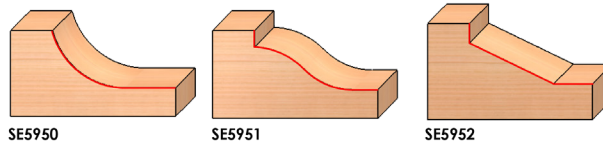
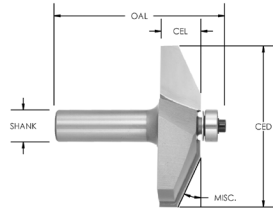
PART #	CED	SHANK	CUT DEPTH	BEARING	STYLE
SE5900B	3-1/4"	1/2"	1-3/8"	SBE115	Straight 15°
SE5900E	3-1/4"	1/2"	1-3/8"	SBE115	Cove
SE5900H	3-1/4"	1/2"	1-3/8"	SBE115	Ogee



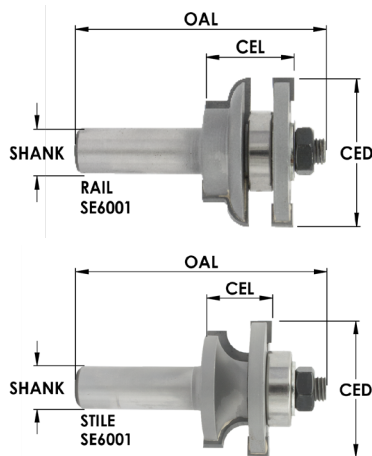
## MEDIUM RAISED PANEL



PART #	CED	SHANK	OAL	DEPTH	BEARING	STYLE
SE5950	2-1/2"	1/2"		1"	SBE115	Cove
SE5951	2-1/2"	1/2"		1"	SBE115	Ogee
SE5952	2-1/2"	1/2"		1"	SBE115	Straight 25°

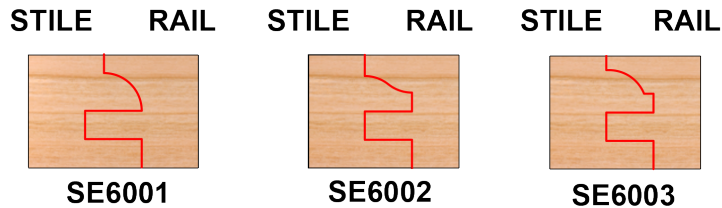


## STILE AND RAIL

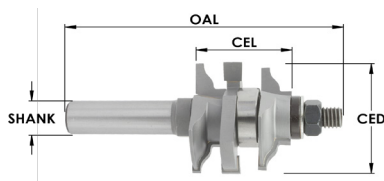


PART #	CED	CEL	SHANK	DEPTH	PATTERN
SE6001	1-5/8"	1"	1/2"	3/8"	Round
SE6002	1-5/8"	1"	1/2"	3/8"	Ogee
SE6003	1-5/8"	1"	1/2"	3/8"	Bead

*2-Piece Set*  
*Bearing SBE125*  
*Shim Kit SESK-012*  
*Groover SE6000G*



## DOUBLE STILE AND RAIL

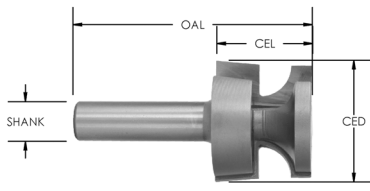


PART #	CED	SHANK	DEPTH	PATTERN
SE6007	1-5/8"	1/2"	3/8"	Ogee

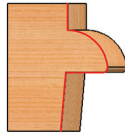
*Bearing SBE125*  
*Shim Kit SESK-012*



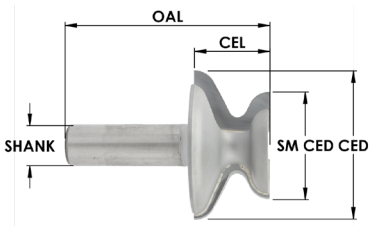
## RECESSED DOOR EDGE



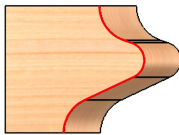
PART #	CED	CEL	SHANK
SE6010	1-1/2"	1-3/16"	1/2"



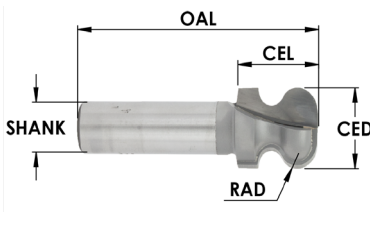
## EUROPEAN DOOR EDGE



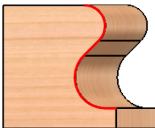
PART #	CED	CEL	SHANK	OAL	SM DIA
SE6016	1-3/4"	7/8"	1/2"	2-3/8"	5/8"



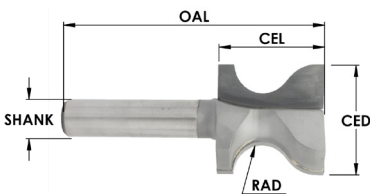
## DRAWER PULL



PART #	CED	CEL	SHANK	RAD
SE6024	3/4"	7/8"	1/2"	3/16"
SE6026	1-1/2"	7/8"	1/2"	1/4"

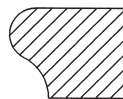


## WINDOW SILL EDGE

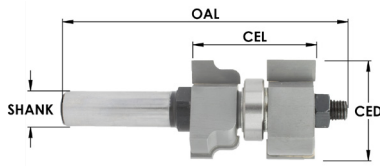


PART #	CED	CEL	SHANK	RAD
SE6045	1-1/4"	13/16"	1/2"	7/32"
SE6046	1-7/16"	1-7/16"	1/2"	3/8"

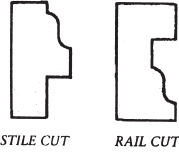
*These Bits Can Also Be Used For Drawer Pulls*



## WINDOW SASH BIT

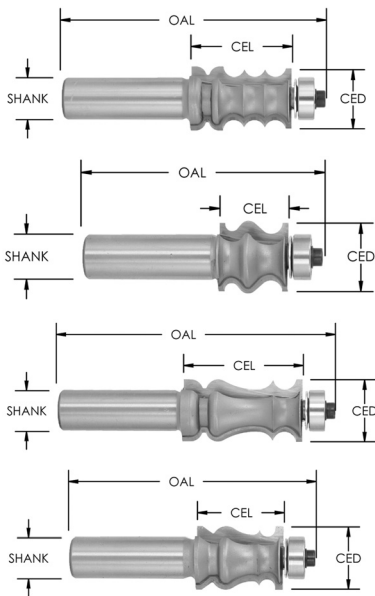


PART #	CED	CEL	SHANK	OAL
SE6050	1-3/8"	7/8"-1-5/8"	1/2"	3-5/8"



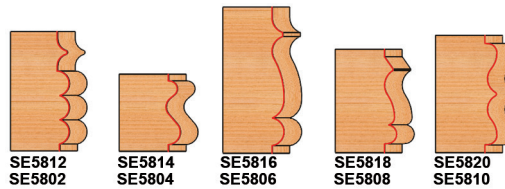
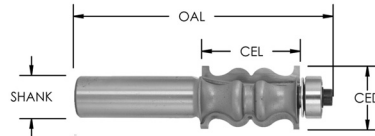
PART #	CED	Description
SE6050P	1-3/8"	Profile Cutter
SAR500WS		Arbor
SBE125		Bearing
SESK-012		Shim Kit
SE6050SP		Spacer
SE6050C	1-3/8"	Straight Cutter

## PICTURE FRAME



PART #	CED	CEL	SHANK	OAL
SE5502	3/4"	1-3/16"	1/4"	2-7/8"
SE5504	3/4"	3/4"	1/4"	2-7/16"
SE5506	3/4"	1-7/16"	1/4"	3-1/8"
SE5508	3/4"	1"	1/4"	2-11/16"
SE5510	3/4"	1-3/16"	1/4"	2-13/16"
SE5812	3/4"	1-3/16"	1/2"	3-1/8"
SE5814	3/4"	3/4"	1/2"	2-11/16"
SE5816	3/4"	1-7/16"	1/2"	3-3/8"
SE5818	3/4"	1"	1/2"	2-15/16"
SE5820	3/4"	1-3/16"	1/2"	3-1/16"

### SBE115 Bearing





## POCKET HOLE BITS FOR CASTLE™ MACHINE



SRU320RUF



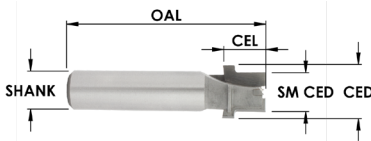
SECTDS-38



SE29102-CAST

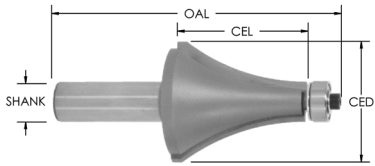
PART #	CED	CEL	SHANK	OAL	DESCRIPTION
SE29102-CAST	9/64"	1"	1/4"	2-1/2"	Drill - Package of 5
SECTDS38	3/8"	9/16"	3/8"	2-1/2"	Carbide Tipped
SRU320RUF	3/8"	7/8"	3/8"	2-1/2"	Solid Carbide
SE29102-CAST-VPT	9/64"	1"	1/4"	2-1/2"	V-Point- Package of 5

## EURO STEP BITS



PART #	CED	SM CED	SHANK
SE751	1.000"	0.750"	1/2"
SE753	0.630"	0.500"	1/2"
SE755	0.650"	0.492"	1/2"
SE756	0.630"	0.484"	1/2"
SE757	0.800"	0.563"	1/2"
SE758	0.795"	0.480"	1/2"
SE759	0.638"	0.480"	1/2"

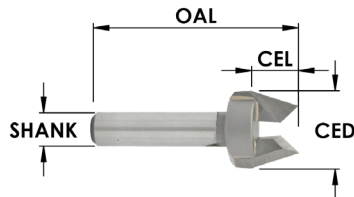
## QUEEN ANNE MOLDING



PART #	CED	CEL	SHANK	RADIUS
SE3550	7/8"	15/16"	1/2"	1-3/4"
SE3555	1-1/2"	1-5/8"	1/2"	2-1/2"
SE3560	1-1/8"	1-3/8"	1/2"	3"



## PLYWOOD KNOCKOUT

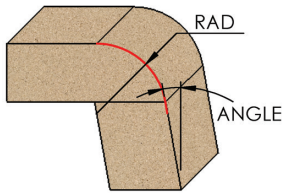
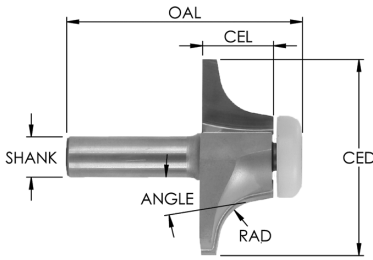


PART #	CED	CEL	SHANK
PCO-14	5/16" - 9/16"	5/16"	1/4"

*This bit is used to cut out imperfections in plywood, for resurfacing.  
2-Flute*

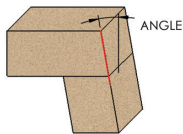
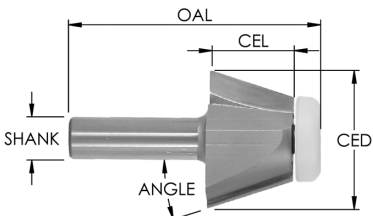
# SOLID SURFACE BITS

## SOLID SURFACE BOWL BIT



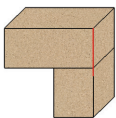
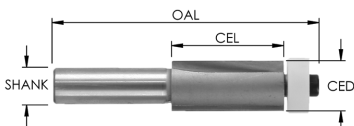
PART #	CED	CEL	RAD	OAL	ANGLE	BEARING
SES0140	2-1/8"	1"	1/2"	2-15/16"	20 DEG	SBESS210
SES0145	2-1/4"	1-1/4"	1/2"	3-3/16"	20 DEG	SBESS210
SES0150	2-1/8"	7/8"	3/8"	2-13/16"	10 DEG	SBESS220
SES0155	2-3/8"	7/8"	1/2"	2-13/16"	10 DEG	SBESS220
SES0152	2-1/8"	7/8"	3/8"	2-13/16"	15 DEG	SBESS220
SES0157	2-3/8"	7/8"	1/2"	2-13/16"	15 DEG	SBESS220

## SOLID SURFACE BEVEL BIT



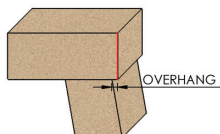
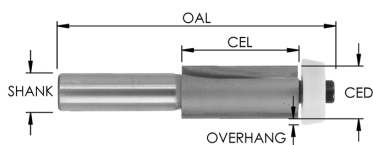
PART #	CED	CEL	SHANK	OAL	ANGLE	BEARING
SES0170	1-3/8"	1"	1/2"	2-15/16"	10 DEG	SBESS220
SES0185	1-3/8"	1"	1/2"	2-15/16"	12 DEG	SBESS220

## SOLID SURFACE FLUSH TRIM BIT



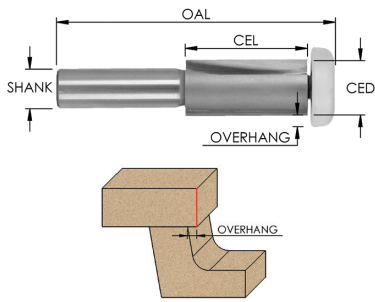
PART #	CED	CEL	SHANK	OAL	BEARING
SES0212	3/4"	1"	1/2"	3-1/8"	SBE121
SES0217	3/4"	1-1/4"	1/2"	3-3/8"	SBE121
SES0222	3/4"	1-1/2"	1/2"	3-5/8"	SBE121
SES0227	3/4"	1-3/4"	1/2"	4-1/8"	SBE121

## SOLID SURFACE OVERHANG TRIM BIT



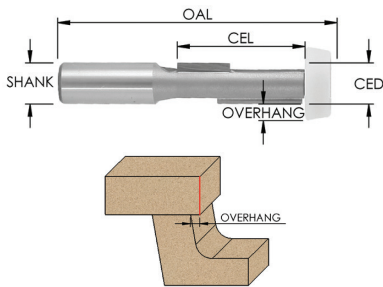
PART #	CED	CEL	SHANK	OAL	BEARING
SES0275	3/4"	1"	1/2"	3-1/8"	SBESS210
SES0285	3/4"	1-1/4"	1/2"	3-3/8"	SBESS210
SES0295	3/4"	1-1/2"	1/2"	3-5/8"	SBESS210
SES0297	3/4"	1-3/4"	1/2"	4-1/8"	SBESS210

## SOLID SURFACE OVERHANG TRIM BIT



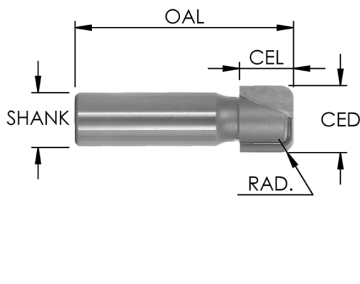
PART #	CED	CEL	SHANK	OAL	MATERI-AL	BEARING
SES0280	3/4"	1"	1/2"	3-1/8"	1/2" TO 3/4"	SBESS220
SES0290	3/4"	1-1/4"	1/2"	3-3/8"	1"	SBESS220
SES0296	3/4"	1-1/2"	1/2"	3-5/8"	1-1/4"	SBESS220
SES0298	3/4"	1-3/4"	1/2"	4-1/8"	1-3/4"	SBESS220

## SOLID SURFACE STAGGERED OVERHANG TRIM BIT



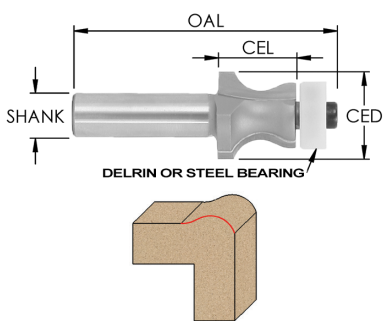
PART #	CED	CEL	SHANK	OAL	OVER-HANG	BEARING
SES0245	1/2"	1-3/8"	1/2"	3-5/16"	1/8"	SBESS205
SES0255	1/2"	1-3/8"	1/2"	3-5/16"	7/32"	SBESS215

## DRAINBOARD BITS



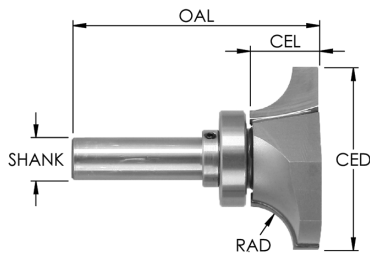
PART #	CED	CEL	SHANK	OAL	RAD
SE2921	1/2"	1/2"	1/2"	2"	1/8"
SE2922	5/8"	1/2"	1/2"	2"	1/8"
SE2923	3/4"	1/2"	1/2"	2"	1/8"
SE2924	1"	1/2"	1/2"	2"	1/8"

## SOLID SURFACE NO DRIP BIT

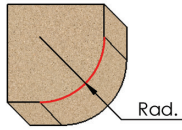


PART #	CED	CEL	SHANK	OAL	BEARING
SES0100	1"	7/8"	1/2"	3"	SBE121R
SES0102	1"	7/8"	1/2"	3"	SBE121

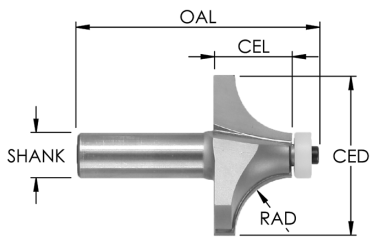
## SOLID SURFACE UNDER ROUNDING BIT



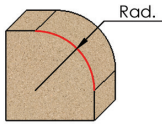
PART #	CED	CEL	SHANK	OAL	RAD	BEARING
SE2033	1-7/8"	1/2"	1/2"	3-1/16"	3/8"	SBE150
SE2034	2-1/8"	3/4"	1/2"	3-3/16"	1/2"	SBE150
SE2036	2-5/8"	1"	1/2"	3-7/16"	3/4"	SBE150



## ROUND OVER BITS WITH DELRIN BEARING

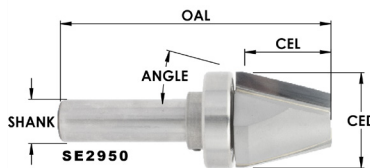


PART #	CED	CEL	SHANK	RAD	BEARING
SE2005ADS	3/4"	1/2"	1/2"	1/8"	SBE117
SE2006DS	1"	1/2"	1/2"	1/4"	SBE117
SE2007DS	1-1/8"	1/2"	1/2"	5/16"	SBE117
SE2008DS	1-1/4"	5/8"	1/2"	3/8"	SBE117
SE2009DS	1-1/2"	3/4"	1/2"	1/2"	SBE117
SE2009ADS	1-3/4"	1"	1/2"	5/8"	SBE117
SE2010DS	2"	1"	1/2"	3/4"	SBE117
SE2011DS	2-1/4"	1-1/8"	1/2"	7/8"	SBE117



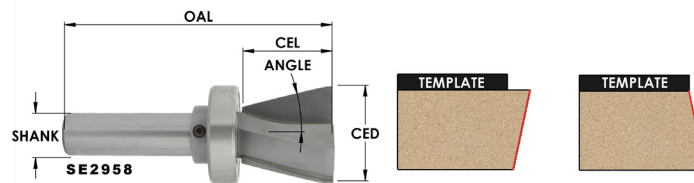
*Other sizes available. Select a bit from our Round-Over Section and add DS after the number.*

## SOLID SURFACE REPAIR BITS

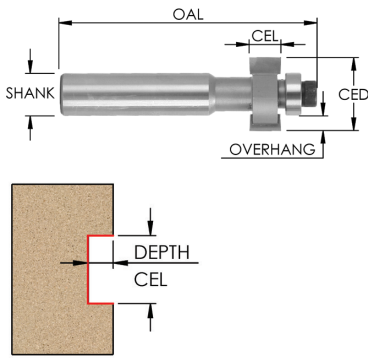


PART #	CED	CEL	SHANK	OAL	ANGLE	BEARING
SE2950	1-1/8"	1"	1/2"	3-5/16"	14 DEG	SBE150
SE2958	1-1/8"	1"	1/2"	3-5/16"	14 DEG	SBE150

*Uses collar SELC-12*



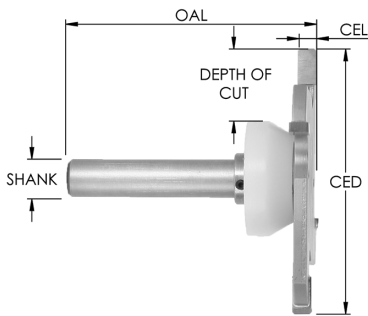
## FACE INLAY BITS



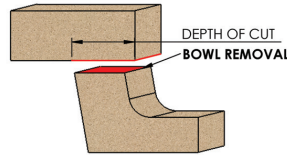
PART #	CED	CEL	SHANK	DEPTH	BEARING
SE2906	7/8"	1/8"	1/2"	1/16"	SBE120
SE2907	7/8"	1/8"	1/2"	1/8"	SBE130
SE2908	7/8"	1/8"	1/2"	3/16"	SBE145
SE2900	7/8"	1/4"	1/2"	1/16"	SBE120
SE2901	7/8"	1/4"	1/2"	1/8"	SBE130
SE2902	7/8"	1/4"	1/2"	3/16"	SBE145
SE2909	7/8"	3/8"	1/2"	1/16"	SBE120
SE2910	7/8"	3/8"	1/2"	1/8"	SBE130
SE2911	7/8"	3/8"	1/2"	3/16"	SBE145
SE2903	7/8"	1/2"	1/2"	1/16"	SBE120
SE2904	7/8"	1/2"	1/2"	1/8"	SBE130
SE2905	7/8"	1/2"	1/2"	3/16"	SBE145
SE2912	7/8"	3/4"	1/2"	1/16"	SBE120
SE2913	7/8"	3/4"	1/2"	1/8"	SBE130
SE2914	7/8"	3/4"	1/2"	3/16"	SBE145

*SBE124 Bearing can be used for flush cutting if needed*

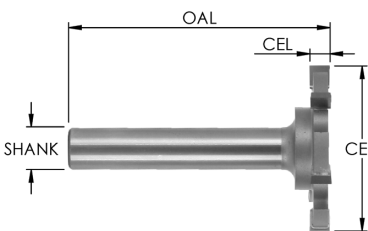
## SOLID SURFACE 4 WING BOWL REMOVAL BIT



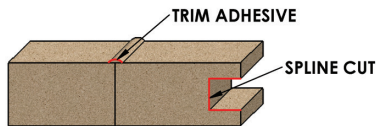
PART #	CED	CEL	SHANK	OAL	DEPTH	BEARING
SES0465	3-5/8"	1/4"	1/2"	3-1/4"	1-1/16"	SBESS215
SES0466	3-5/8"	1/4"	1/2"	3-1/4"	1-1/4"	SBE150R
SES0470	3"	3/16"	1/2"	3-3/16"	15/16"	SBE150R



## COUNTERTOP SURFACE PLANNER

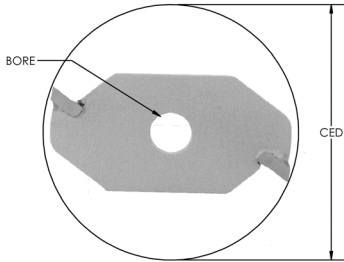


PART #	CED	CEL	SHANK	OAL	FLUTES
SE2988	2-1/16"	1/4"	1/2"	3-1/4"	6



# SLOT CUTTERS AND SAW BLADES

## 2 WING SLOT CUTTER



PART #	CED	KERF (Decimal)	KERF (Fraction)	BORE
SL062-2	1-7/8"	.062"	1/16"	5/16"
SL078-2	1-7/8"	.078"	5/64"	5/16"
SL093-2	1-7/8"	.093"	3/32"	5/16"
SL125-2	1-7/8"	.125"	1/8"	5/16"
SL157-2	1-7/8"	.156"	5/32"	5/16"
SL187-2	1-7/8"	.187"	3/16"	5/16"
SL250-2	1-7/8"	.250"	1/4"	5/16"

*Special sizes available, call for a quote.*

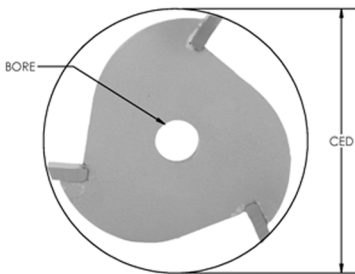
## 2 WING SLOT CUTTER - ASSEMBLY



PART # 1/4" SHANK	PART # 1/2" SHANK	CED	KERF (Decimal)	KERF (Fraction)	BORE	OAL
SL062-2A2	SL062-2A5	1-7/8"	.062"	1/16"	5/16"	2-3/8"
SL078-2A2	SL078-2A5	1-7/8"	.078"	5/64"	5/16"	2-3/8"
SL093-2A2	SL093-2A5	1-7/8"	.093"	3/32"	5/16"	2-3/8"
SL125-2A2	SL125-2A5	1-7/8"	.125"	1/8"	5/16"	2-3/8"
SL157-2A2	SL157-2A5	1-7/8"	.156"	5/32"	5/16"	2-3/8"
SL187-2A2	SL187-2A5	1-7/8"	.187"	3/16"	5/16"	2-3/8"
SL250-2A2	SL250-2A5	1-7/8"	.250"	1/4"	5/16"	2-3/8"

*Assembly comes complete with arbor & bearing SBE125.*

## 3 WING SLOT CUTTER



PART #	CED	KERF (Decimal)	KERF (Fraction)	BORE
SL050-3	1-7/8"	.050"	n/a	5/16"
SL055-3	1-7/8"	.055"	n/a	5/16"
SL062-3	1-7/8"	.062"	1/16"	5/16"
SL070-3	1-7/8"	.070"	n/a	5/16"
SL078-3	1-7/8"	.078"	5/64"	5/16"
SL080-3	1-7/8"	.080"	n/a	5/16"
SL093-3	1-7/8"	.093"	3/32"	5/16"
SL100-3	1-7/8"	.100"	n/a	5/16"
SL106-3	1-7/8"	.106"	n/a	5/16"
SL110-3	1-7/8"	.110"	7/64"	5/16"
SL115-3	1-7/8"	.115"	n/a	5/16"
SL125-3	1-7/8"	.125"	1/8"	5/16"
SL140-3	1-7/8"	.140"	9/64"	5/16"
SL157-3	1-7/8"	.156"	5/32"	5/16"
SL187-3	1-7/8"	.187"	3/16"	5/16"
SL218-3	1-7/8"	.218"	7/32"	5/16"
SL250-3	1-7/8"	.250"	1/4"	5/16"
SL281-3	1-7/8"	.281"	9/32"	5/16"

*Special sizes available, call for a quote.*

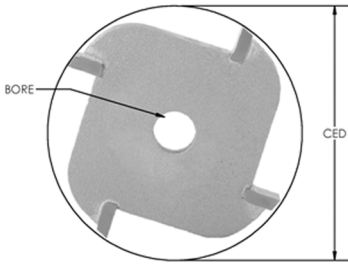
### 3 WING SLOT CUTTER - ASSEMBLY



PART # 1/4" SHANK	PART # 1/2" SHANK	CED	KERF (Decimal)	KERF (Fraction)	BORE	OAL
SL050-3A2	SL050-3A5	1-7/8"	.050"	n/a	5/16"	2-3/8"
SL055-3A2	SL055-3A5	1-7/8"	.055"	n/a	5/16"	2-3/8"
SL062-3A2	SL062-3A5	1-7/8"	.062"	1/16"	5/16"	2-3/8"
SL070-3A2	SL070-3A5	1-7/8"	.070"	n/a	5/16"	2-3/8"
SL078-3A2	SL078-3A5	1-7/8"	.078"	5/64"	5/16"	2-3/8"
SL080-3A2	SL080-3A5	1-7/8"	.080"	n/a	5/16"	2-3/8"
SL093-3A2	SL093-3A5	1-7/8"	.093"	3/32"	5/16"	2-3/8"
SL100-3A2	SL100-3A5	1-7/8"	.100"	n/a	5/16"	2-3/8"
SL106-3A2	SL106-3A5	1-7/8"	.106"	n/a	5/16"	2-3/8"
SL110-3A2	SL110-3A5	1-7/8"	.110"	7/64"	5/16"	2-3/8"
SL115-3A2	SL115-3A5	1-7/8"	.115"	n/a	5/16"	2-3/8"
SL125-3A2	SL125-3A5	1-7/8"	.125"	1/8"	5/16"	2-3/8"
SL140-3A2	SL140-3A5	1-7/8"	.140"	9/64"	5/16"	2-3/8"
SL157-3A2	SL157-3A5	1-7/8"	.156"	5/32"	5/16"	2-3/8"
SL187-3A2	SL187-3A5	1-7/8"	.187"	3/16"	5/16"	2-3/8"
SL218-3A2	SL218-3A5	1-7/8"	.218"	7/32"	5/16"	2-3/8"
SL250-3A2	SL250-3A5	1-7/8"	.250"	1/4"	5/16"	2-3/8"
SL281-3A2	SL281-3A5	1-7/8"	.281"	9/32"	5/16"	2-3/8"

Assembly comes complete with arbor & bearing SBE125.

### 4 WING SLOT CUTTER



PART #	CED	KERF (Decimal)	KERF (Decimal)	BORE
SL062-4	1-7/8"	.062"	1/16"	5/16"
SL070-4	1-7/8"	.070"	n/a	5/16"
SL080-4	1-7/8"	.080"	n/a	5/16"
SL093-4	1-7/8"	.093"	3/32"	5/16"
SL125-4	1-7/8"	.125"	1/8"	5/16"
SL157-4	1-7/8"	.156"	5/32"	5/16"
SL187-4	1-7/8"	.187"	3/16"	5/16"
SL250-4	1-7/8"	.250"	1/4"	5/16"
SL281-4	1-7/8"	.281"	9/32"	5/16"

Special sizes available, call for a quote.

### 4 WING SLOT CUTTER - ASSEMBLY

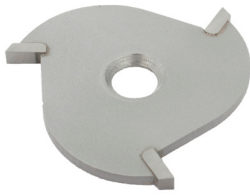


PART # 1/4" SHANK	PART # 1/2" SHANK	CED	KERF (Decimal)	KERF (Fraction)	BORE	OAL
SL062-4A2	SL062-4A5	1-7/8"	.062"	1/16"	5/16"	2-3/8"
SL070-4A2	SL070-4A5	1-7/8"	.070"	n/a	5/16"	2-3/8"
SL080-4A2	SL080-4A5	1-7/8"	.080"	n/a	5/16"	2-3/8"
SL093-4A2	SL093-4A5	1-7/8"	.093"	3/32"	5/16"	2-3/8"
SL125-4A2	SL125-4A5	1-7/8"	.125"	1/8"	5/16"	2-3/8"
SL157-4A2	SL157-4A5	1-7/8"	.156"	5/32"	5/16"	2-3/8"
SL187-4A2	SL187-4A5	1-7/8"	.187"	3/16"	5/16"	2-3/8"
SL250-4A2	SL250-4A5	1-7/8"	.250"	1/4"	5/16"	2-3/8"
SL281-4A2	SL281-4A5	1-7/8"	.281"	9/32"	5/16"	2-3/8"

Assembly comes complete with arbor & bearing SBE125.



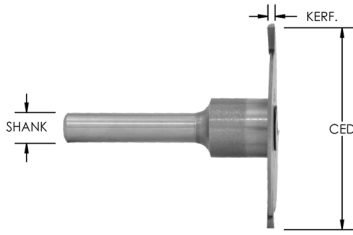
### 3 WING COUNTERSINK SLOT CUTTER\*



PART #	CED	KERF (Decimal)	KERF (Fraction)	BORE
FBL062-3	1-7/8"	.062	1/16"	5/16"
FBL093-3	1-7/8"	.093	3/32"	5/16"
FBL125-3	1-7/8"	.125	1/8"	5/16"
FBL157-3	1-7/8"	.157	5/32"	5/16"
FBL187-3	1-7/8"	.187	3/16"	5/16"
FBL250-3	1-7/8"	.250	1/4"	5/16"

\*Flush Bottom

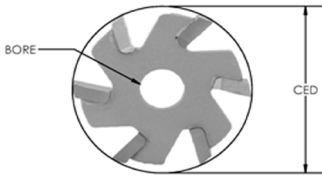
### 3 WING COUNTERSINK SLOT CUTTER - ASSEMBLY\*



PART # 1/4" SHANK	PART # 1/2" SHANK	CED	KERF (Decimal)	KERF (Fraction)	OAL
FBL062-3A2	FBL062-3A5	1-7/8"	.062	1/16"	1-1/2"
FBL093-3A2	FBL093-3A5	1-7/8"	.093	3/32"	1-1/2"
FBL125-3A2	FBL125-3A5	1-7/8"	.125	1/8"	1-1/2"
FBL157-3A2	FBL157-3A5	1-7/8"	.157	5/32"	1-1/2"
FBL187-3A2	FBL187-3A5	1-7/8"	.187	3/16"	1-1/2"
FBL250-3A2	FBL250-3A5	1-7/8"	.250	1/4"	1-1/2"

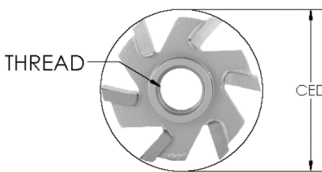
\*Flush Bottom Assembly  
18,000 MAX RPM

### DRAWER SLOT CUTTERS



PART #	CED	KERF (Decimal)	KERF (Fraction)	BORE	WINGS
SDR187-4	1-1/4"	.187"	3/16"	5/16"	4
SDR250-4	1-1/4"	.250"	1/4"	5/16"	4
SDR187-6	1-1/4"	.187"	3/16"	5/16"	6
SDR250-6	1-1/4"	.250"	1/4"	5/16"	6

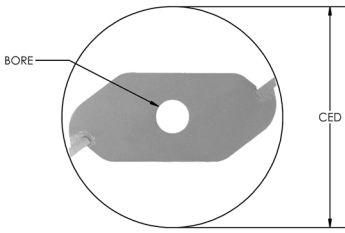
### JEMCO SLOT CUTTERS



PART #	CED	KERF (Decimal)	KERF (Fraction)	WINGS	BORE THREAD
SJM187-4	1-1/4"	.187"	3/16"	4	3/8"-24
SJM250-4	1-1/4"	.250"	1/4"	4	3/8"-24
SJM187-6	1-1/4"	.187"	3/16"	6	3/8"-24
SJM250-6	1-1/4"	.250"	1/4"	6	3/8"-24
SJM281-6	1-1/4"	.281	9/32"	6	3/8"-24

Special sizes available, call for a quote.

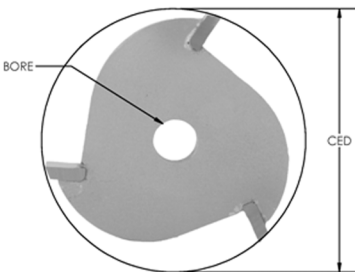
## TOPMASTER SLOT CUTTER - 2 WING



Part#	CED	KERF (Decimal)	KERF (Fraction)	BORE
STOP060	2-1/2"	.060"	n/a	3/8"
STOP062	2-1/2"	.062"	1/16"	3/8"
STOP070	2-1/2"	.070"	n/a	3/8"
STOP080	2-1/2"	.080"	n/a	3/8"
STOP085	2-1/2"	.085"	n/a	3/8"
STOP090	2-1/2"	.090"	n/a	3/8"
STOP093	2-1/2"	.093"	3/32"	3/8"
STOP095	2-1/2"	.095"	n/a	3/8"
STOP100	2-1/2"	.100"	n/a	3/8"
STOP105	2-1/2"	.105"	n/a	3/8"
STOP110	2-1/2"	.110"	7/64"	3/8"
STOP115	2-1/2"	.115"	n/a	3/8"
STOP125	2-1/2"	.125"	1/8"	3/8"
STOP130	2-1/2"	.130"	n/a	3/8"
STOP140	2-1/2"	.140"	9/64"	3/8"
STOP150	2-1/2"	.150"	n/a	3/8"
STOP160	2-1/2"	.160"	n/a	3/8"
STOP170	2-1/2"	.170"	11/64"	3/8"
STOP180	2-1/2"	.180"	n/a	3/8"

Arbor SAR500-38 for Topmaster Cutters

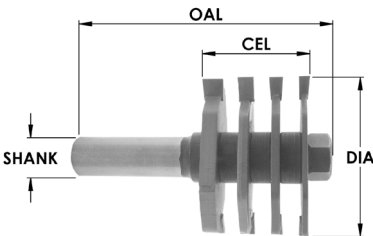
## TOPMASTER SLOT CUTTER - 3 WING



PART #	CED	KERF (Decimal)	KERF (Fraction)	BORE
STOP093-3	2-1/2"	.093"	3/32"	3/8"
STOP115-3	2-1/2"	.115"	n/a	3/8"
STOP125-3	2-1/2"	.125"	1/8"	3/8"

Special sizes available, call for a quote.  
Arbor SAR500-38 for Topmaster Cutters

## ADJUSTABLE SLOTTING CUTTER ASSEMBLY



PART #	CED	CEL	SHANK	OAL
SLASCA	1-7/8"	1/8"-23/32"	1/2"	3-1/16"

To make various width cuts by combining slotters to achieve desired width.

Replacement Parts	DESCRIPTION
SL125-2	1/8" 2 Wing Slotter
SL157-2	5/32" 2 Wing Slotter
SL187-2	3/16" 2 Wing Slotter
SL250-2	1/4" 2 Wing Slotter
SAR500-1716	Arbor
SBE125	Bearing
SESK-012	Shim Kit

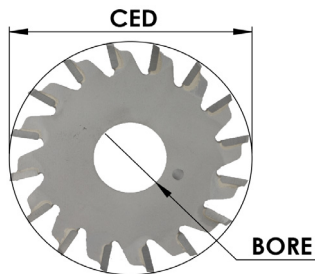
## CARBIDE-TIPPED SAW BLADES



PART #	CED	TEETH	KERF	BORE	GRIND
SE972524	7 1/4"	24	0.090	5/8"	ATB
SE9840ATB	8 1/4"	40	0.087	5/8"	ATB
SE9860ATB	8 1/4"	60	0.087	5/8"	ATB
SE9128ATB	10"	28	0.118	5/8"	ATB
SE9140ATB	10"	40	0.118	5/8"	ATB
SE9150	10"	50	0.118	5/8"	Combo
SE9160ATB	10"	60	0.118	5/8"	ATB
SE9160TCG	10"	60	0.118	5/8"	TCG
SE9180ATB	10"	80	0.118	5/8"	ATB
SE9240ATB	12"	40	0.118	1"	ATB
SE9260ATB	12"	60	0.118	1"	ATB
SE9260TCGN*	12"	60	0.118	1"	TCG
SE9280ATB	12"	80	0.118	1"	ATB
SE9296ATB	12"	96	0.118	1"	ATB

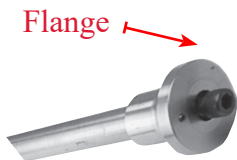
\*Negative Hook

## CARBIDE TIPPED PLASTIC SAW (TRIPLE CHIP GRIND)



PART #	CED	WINGS	HOOK	KERF	BORE	RPM	FEED
SPS2-16-095	2"	16	0°	0.095	5/8"	18,000	125 to 175
SPS25-16-095	2-1/2"	16	0°	0.095	5/8"	16,000	125 to 175
SPS3-16-095	3"	16	0°	0.095	5/8"	14,000	125 to 175
SPS35-16-095	3-1/2"	16	0°	0.095	5/8"	12,000	125 to 175

## ARBORS FOR PLASTIC SAWS

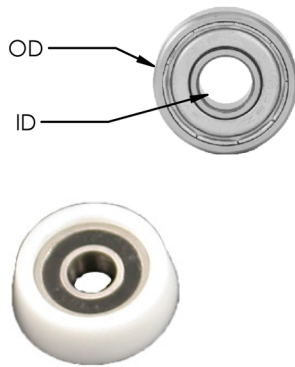


SPSARBOR-12

PART #	FLANGE DIAMETER	SHANK	OAL
SPSARBOR-12	1-1/4"	1/2"	3-1/4"
SPSARBOR-12-412	1-1/4"	1/2"	4-1/2"
SPSARBOR-58	1-1/4"	5/8"	3-1/4"

# ROUTER BIT ACCESSORIES

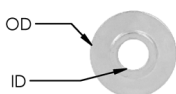
## BEARINGS



PART #	O.D.	I.D.	DESCRIPTION
SBE100	1/4"	1/8"	
SBE105	3/8"	1/8"	
SBE106	3/8"	1/4"	
SBE110	3/8"	3/16"	
SBE190	.490"	3/16"	(For sharpened tools)
SBE193	.490"	1/4"	(For sharpened tools)
SBE107	1/2"	1/8"	
SBE145	1/2"	1/4"	
SBE115	1/2"	3/16"	
SBE115-BK	1/2"	3/16"	Bulk Packaged
SBE117	1/2"	3/16"	(Delrin Sleeve Bearing)
SBE119	3/4"	6mm	
SBE135	5/8"	3/16"	
SBE130	5/8"	1/4"	
SBE138	11/16"	3/16"	
SBE160	11/16"	1/4"	
SBE195	.740"	3/16"	(For sharpened tools)
SBE197	.740"	1/4"	(For sharpened tools)
SBE140	3/4"	3/16"	
SBE120	3/4"	1/4"	
SBE121	3/4"	1/4"	(Delrin Sleeve Bearing)
SBE121R	3/4"	1/4"	Rubber Sealed Bearing
SBE155	3/4"	1/2"	
SBE122	13/16"	3/16"	
SBE123	7/8"	3/16"	
SBE124	7/8"	1/4"	
SBE125	7/8"	5/16"	
SBE127	7/8"	3/8"	
SBE129	7/8"	1/2"	
SBE128	22mm	8mm	
SBE147	1"	3/16"	
SBE149	1"	1/4"	DELRIN BEARING
SBE150	1 1/8"	1/2"	
SBE150R	1 1/8"	1/2"	Rubber Sealed Bearing
SBE152	1 1/4"	1/2"	
SBE153	1 3/8"	1/2"	
SBE154	1-1/2"	1/2"	
SBESS205*	3/4"	1/4"	5 DEG DELRIN BEARING
SBESS210*	7/8"	1/4"	10 DEG DELRIN BEARING
SBESS215*	15/16"	1/4"	5 DEG DELRIN BEARING
SBESS220*	1"	1/4"	5 DEG DELRIN BEARING 5/32 RADIUS
SBESS225*	1-1/2"	1/2"	30 DEG DELRIN BEARING
SBE115-ES	1/2"	3/16"	EUROTRIM BEARING
SBE140-ES	3/4"	3/16"	EUROTRIM BEARING

*\*Used on Solid Surface bits requiring angle bearing.*

## DUST SHIELDS



PART #	O.D.	I.D.	DESCRIPTION	PKG QTY
SDS105	3/8"	1/8"	For SBE105	10 pcs
SDS115	1/2"	3/16"	For SBE115	10 pcs
SDS120	3/4"	1/4"	For SBE120	10 pcs

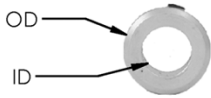
*To reduce the effect of dust and glues on bearings.*

## RETAINING RINGS



PART #	DIA	PKG QTY
SE-E12	1/2"	10 pcs
SE-E25	1/4"	10 pcs

## BEARING LOCKING COLLARS



PART #	I.D.	O.D.	DESCRIPTION
SELC-18	1/8"	15/64"	
SELC-14	1/4"	7/16"	
SELC-12	1/2"	11/16"	
SELC-SCREW			10 pcs per pack
SEHK-116			Hex Key Wrench

## BEARING KITS



PART #	DESCRIPTION
SBE200	BEARING KIT • 5pcs

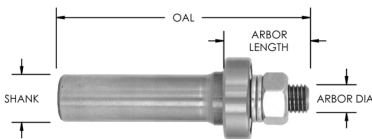
- 1 pc SBE110
- 1 pc SBE115
- 1 pc SBE135
- 1 pc SBE140
- Hex Key Wrench



PART #	DESCRIPTION
SBK022	SHARPENER'S BEARING KIT (22pcs)

- 5 pc SBE115
- 1 pc SBE120
- 1 pc SBE190
- 1 pc SBE195
- 1 pc SELC-14
- 1 pc SELC-12
- 3 pc SBE110
- 1 pc SBE155
- 1 pc SBE193
- 1 pc SBE197
- 5 pcs SE540-14
- 1 pc SEHK-332

## ARBORS FOR SLOT CUTTERS



THE ABOVE PICTURE IS WITH THE ADDED BEARING. (SAR500A)



PART #	SHANK DIAMETER	ARBOR DIAMETER	ARBOR LENGTH	OAL
SAR250	1/4"	5/16"	7/8"	2-3/8"
SAR375	3/8"	5/16"	7/8"	2-5/8"
SAR500	1/2"	5/16"	7/8"	2-3/8"
SAR500-38*	1/2"	3/8"	7/8"	2-3/8"
SAR500-1716	1/2"	5/16"	1 7/16"	3-1/16" (T&G Assembly)

Add A to the end of the part number for arbor with bearing SBE125 (ex. SAR250A).  
\*For Topmaster Cutters

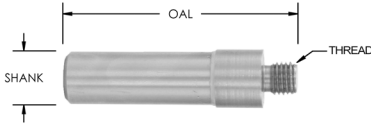
## ARBORS FOR COUNTERSINK SLOT CUTTERS (FLUSH BOTTOM)



PART #	SHANK	OAL
SARF250	1/4"	1-1/2"
SARF250-XL3	1/4"	3"
SARF500	1/2"	1-1/2"
SARF500-XL3	1/2"	3"

*Screws for arbors - SARF1032-516, SARF1032-12, SARF1032-38*

## Arbors For JEMCO® SLOT CUTTERS



PART #	SHANK	OAL	THREAD
SARJM250	1/4"	1-3/4"	3/8"-24
SARJM375	3/8"	2"	3/8"-24
SARJM500	1/2"	2"	3/8"-24

## SCREWS



PART #	THREAD SIZE	THREAD LENGTH	PKG QTY
SE348-14	3-48	1/4"	10 PCS
SE348-38	3-48	3/8"	10 PCS
SE540-14	5-40	1/4"	10 PCS
SE540-38	5-40	3/8"	10 PCS
SE1024-38	10-24	3/8"	10 PCS
SE1032-38	10-32	3/8"	10 PCS

## SHIM/SPACER KIT (12 PIECE)



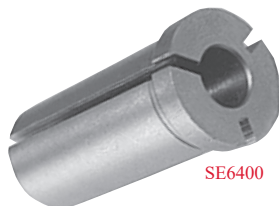
PART #	DESCRIPTION
SESK-012	For any assembly using 5/16" arbor that may need adjustment. (All spacers are 5/16" ID x 5/8" O.D. Kit includes 3 each of the following thicknesses: 6mm, 1mm, .5mm, and .1mm.)

## HEX KEY WRENCHES



PART #	SIZE	DESCRIPTION
SEHK-116	1/16"	For Bearing Lock Collars
SEHK-564	5/64"	1/8"ID Bearings (3-48) Screw
SEHK-332	3/32"	3/16"ID Bearings (5-40) Screw
SEHK-532	5/32"	1/4"ID Bearings (10-32) Screw

## STEEL ROUTER COLLETS



PART #	I.D.	O.D.	OAL
SE6390	1/8"	1/2"	1-1/4"
SE6395	3/16"	1/2"	1-1/4"
SE6400	1/4"	1/2"	1-1/4"
SE6401	5/16"	1/2"	1-1/4"
SE6402	3/8"	1/2"	1-1/4"
SE6403	10mm	1/2"	1-1/4"

*Other sizes available, call for quote.*

## SOLID BRASS INLAY KIT



SE9500

PART #	DESCRIPTION
SE9500	Inlay Kit w/ 1/8" Downcut Spiral SRD203

*Will work on any router that will accept a 1-3/8" diameter bushing.  
(Porter-Cable® and Black & Decker®)*

## BRASS TEMPLATE GUIDE KIT



PART #	I.D.	O.D.	BARREL LENGTH	USAGE
SE9700	KIT INCLUDES THE FOLLOWING			
SE976575	21/32"	3/4"	3/16"	Lock Face Routing
SE973443	11/32"	7/16"	3/16"	Dovetailing 1/2"
SE974050	13/32"	1/2"	3/16"	General
SE972837	9/32"	3/8"	3/16"	General
SE976279	5/8"	51/64"	3/16"	Hinge
SE975362	17/32"	5/8"	3/16"	Stanley Template
SE972531	1/4"	5/16"	3/16"	Dovetailing 1/4"
SE971125N	LOCKING NUT			

*Guides and Nut can be ordered separately*

## SQUARE CORNER CHISEL



PART #	RADIUS
SE9600	1/4"

## CARBON STEEL ROUTER BLANKS\*



PART #	CED	CEL	SHANK	OAL
SECSRB-34	3/4"	1-1/2"	1/2"	3"
SECSRB-1	1"	1-1/2"	1/2"	3"
SECSRB-114	1-1/4"	1-1/2"	1/2"	3"
SECSRB-112	1-1/2"	1-1/2"	1/2"	3"
SECSRB-134	1-3/4"	1-1/2"	1/2"	3"
SECSRB-2	2"	1-1/2"	1/2"	3"
SECSRB-214	2-1/4"	1-1/2"	1/2"	3"
SECSRB-212	2-1/2"	1-1/2"	1/2"	3"

*ALL BLANKS ARE 1/8" UNDERSIZE*

*\*For Carbide Tipping*



## HIGH SPEED STEEL ROUTER BLANKS FOR FINISHED GROUND



PART #	CED	CEL	SHANK	OAL
SEHSSRB-34	3/4"	1-1/2"	1/2"	3"
SEHSSRB-1	1"	1-1/2"	1/2"	3"
SEHSSRB-114	1-1/4"	1-1/2"	1/2"	3"
SEHSSRB-112	1-1/2"	1-1/2"	1/2"	3"
SEHSSRB-134	1-3/4"	1-1/2"	1/2"	3"
SEHSSRB-2	2"	1-1/2"	1/2"	3"
SEHSSRB-214	2-1/4"	1-1/2"	1/2"	3"
SEHSSRB-212	2-1/2"	1-1/2"	1/2"	3"
SEHSSRB-234	2-3/4"	1-1/2"	1/2"	3"
SEHSSRB-3	3"	1-1/2"	1/2"	3"

## HOLLOW MORTISING CHISELS



PART #	CED	SHOULDER DIAMETER	OAL
SEHMC250	1/4"	3/4"	5-1/4"
SEHMC375	3/8"	3/4"	5-1/2"
SEHMC500	1/2"	3/4"	5-1/2"
SEHMC625	5/8"	3/4"	6"
SEHMC750*	3/4"	3/4"	6"

*Each Chisel 1/4" thru 5/8" comes with the center drill  
\*Drill sold separately*

## HOLLOW MORTISING CHISELS - CENTER DRILL ONLY



PART #	CED	SHANK	OAL
SEHMC250-DRILL	1/4"	11/64"	8-1/4"
SEHMC375-DRILL	3/8"	9/32"	8-1/4"
SEHMC500-DRILL	1/2"	3/8"	8-1/4"
SEHMC625-DRILL	5/8"	15/32"	9"
SEHMC750-DRILL	3/4"	12MM	9"

*High-Speed Steel Drill Only*

## HSS CARVING ROUGHER BITS



M2 Steel

PART #	CED	SHANK	ROTATION
SECR500RH	1/2"	1/4"	Right-Hand
SECR500LH	1/2"	1/4"	Left-Hand
SECR625RH	5/8"	1/4"	Right-Hand
SECR625LH	5/8"	1/4"	Left-Hand
SECR625RH-11	5/8"	11mm	Right-Hand
SECR625LH-11	5/8"	11mm	Left-Hand
SECR750RH	3/4"	1/4"	Right-Hand
SECR750LH	3/4"	1/4"	Left-Hand
SECR750RH-11	3/4"	11mm	Right-Hand
SECR750LH-11	3/4"	11mm	Left-Hand
SECR750RH-12	3/4"	1/2"	Right-Hand
SECR750LH-12	3/4"	1/2"	Left-Hand
SECR1000RH	1"	1/4"	Right-Hand
SECR1000LH	1"	1/4"	Left-Hand

## HSS ROUNDING CARVING BITS



M2 Steel

PART #	CED	SHANK	ROTATION
SERC500RH	1/2"	1/4"	Right-Hand
SERC500LH	1/2"	1/4"	Left-Hand
SERC750RH	3/4"	1/4"	Right-Hand
SERC750LH	3/4"	1/4"	Left-Hand

## HSS CARVING POD BITS

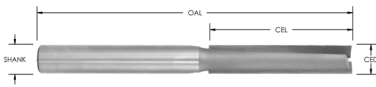


M2 Steel

PART #	CED	CEL	SHANK	OAL	ROTATION
SEPD125LH	1/8"	3/4"	1/4"	3"	Left-Hand
SEPD125RH	1/8"	3/4"	1/4"	3"	Right-Hand
SEPD187LH	3/16"	1"	1/4"	3"	Left-Hand
SEPD187RH	3/16"	1"	1/4"	3"	Right-Hand
SEPD250LH	1/4"	1"	1/4"	3"	Left-Hand
SEPD250RH	1/4"	1"	1/4"	3"	Right-Hand
SEPD375LH	3/8"	1"	1/4"	3"	Left-Hand
SEPD375RH	3/8"	1"	1/4"	3"	Right-Hand

## DOOR BITS

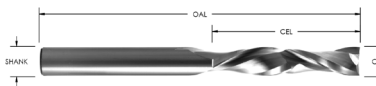
### CARBIDE-TIPPED STRAIGHT DOOR LITE BITS



PART #	CED	CEL	SHANK	OAL
SEDL12-5	1/2"	2-1/4"	1/2"	5"
SEDL12	1/2"	2-1/4"	1/2"	5-1/2"
SEDL12-F*	1/2"	2-1/4"	1/2"	5-1/2"

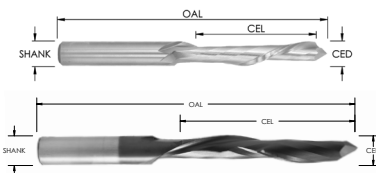
\*with (1) flat on shank

### SOLID CARBIDE DOOR COMPRESSION BIT



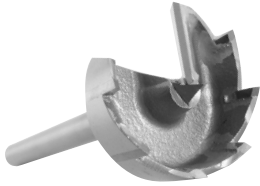
PART #	CED	CEL	SHANK	OAL
SCDOOR-270	1/2"	2-1/2"	1/2"	5-1/2"

### HIGH-SPEED STEEL SPIRAL DOOR BITS



PART #	CED	CEL	SHANK	OAL	DESCRIPTION
SEDOOR-53	1/2"	2-1/2"	1/2"	5-1/2"	Uncoated
SEDOOR-53M	1/2"	2-1/2"	1/2"	5-1/2"	Ceramic Based Coating
SEDOOR-53T	1/2"	2-1/2"	1/2"	5-1/2"	Tin Coated
SEDOOR-57F	1/2"	2-1/2"	1/2"	5-1/2"	With Flat
SEDOOR-57FT	1/2"	2-1/2"	1/2"	5-1/2"	Tin Coated w/ Flat
SEDOOR-60	1/2"	2-1/2"	1/2"	5-1/2"	Uncoated
SEDOOR-60T	1/2"	2-1/2"	1/2"	5-1/2"	Tin Coated
SEDOOR-70	1/2"	2-3/4"	1/2"	5-1/2"	1+1 Compression Coated
SEDOOR-70F	1/2"	2-3/4"	1/2"	5-1/2"	1+1 Compression Coated w/ Flat

## CARBIDE TIPPED MULTI-SPUR BITS



SMS410

**CAUTION: TO BE USED  
IN A DRILL PRESS,  
MILLING MACHINE  
OR BORING MACHINE  
ONLY**

All bits have a 1/2" Shank unless  
noted.  
6" Overall Length  
Made in USA

### Import

Part Number	Description
SMS320	C/T Multi Spur 1" Dia
SMS410	C/T Multi Spur 2-1/8" Dia

PART #	CED	SHANK	OAL
SMS300	3/4"	1/2"	6"
SMS305	13/16"	1/2"	6"
SMS310	7/8"	1/2"	6"
SMS315	15/16"	1/2"	6"
SMS321	1"	1/2"	6"
SMS325	1-1/16"	1/2"	6"
SMS330	1-1/8"	1/2"	6"
SMS335	1-3/16"	1/2"	6"
SMS340	1-1/4"	1/2"	6"
SMS345	1-5/16"	1/2"	6"
SMS350	1-3/8"	1/2"	6"
SMS355	1-7/16"	1/2"	6"
SMS360	1 1/2"	1/2"	6"
SMS365	1-9/16"	1/2"	6"
SMS370	1-5/8"	1/2"	6"
SMS375	1-11/16"	1/2"	6"
SMS380	1-3/4"	1/2"	6"
SMS385	1-13/16"	1/2"	6"
SMS390	1-7/8"	1/2"	6"
SMS395	1-15/16"	1/2"	6"
SMS400	2"	1/2"	6"
SMS411	2-1/8"	1/2"	6"
SMS413	2-1/4"	1/2"	6"
SMS414	2-3/8"	1/2"	6"
SMS415	2-1/2"	1/2"	6"
SMS420	2-5/8"	1/2"	6"
SMS425	2-3/4"	1/2"	6"
SMS430	2-7/8"	1/2"	6"
SMS435	3"	1/2"	6"
SMS440-34*	3-1/8"	3/4"	6"
SMS440	3-1/8"	1/2"	6"
SMS445-34*	3-1/4"	3/4"	6"
SMS445	3-1/4"	1/2"	6"
SMS450-34*	3-1/2"	3/4"	6"
SMS450	3-1/2"	1/2"	6"
SMS455-34*	3-3/4"	3/4"	6"
SMS455	3-3/4"	1/2"	6"
SMS460-34*	4"	3/4"	6"
SMS460	4"	1/2"	6"

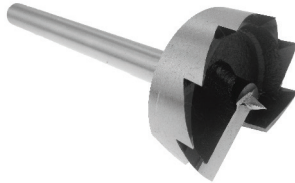
\* 3/4 shank

## HIGH SPEED STEEL MULTI-SPUR BITS



SSMHS435

**CAUTION: TO BE USED  
IN A DRILL PRESS,  
MILLING MACHINE  
OR BORING MACHINE  
ONLY**

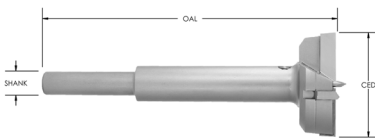


Made in Austria

PART #	CED	SHANK	OAL
SMSHS280	3/8"	1/2"	4-3/4"
SMSHS290	1/2"	1/2"	4-3/4"
SMSHS295	9/16"	1/2"	4-3/4"
SMSHS298	5/8"	1/2"	4-3/4"
SMSHS303	11/16"	1/2"	4-3/4"
SMSHS300	3/4"	1/2"	5-1/8"
SMSHS305	13/16"	1/2"	6"
SMSHS310	7/8"	1/2"	5-1/8"
SMSHS315	15/16"	1/2"	5-1/8"
SMSHS321	1"	1/2"	6"
SMSHS325	1-1/16"	1/2"	5-1/8"
SMSHS330	1-1/8"	1/2"	6"
SMSHS335	1-3/16"	1/2"	6"
SMSHS340	1-1/4"	1/2"	5-1/8"
SMSHS345	1-5/16"	1/2"	6"
SMSHS350	1-3/8"	1/2"	6"
SMSHS355	1-7/16"	1/2"	6"
SMSHS360	1-1/2"	1/2"	6"
SMSHS365	1-9/16"	1/2"	6"
SMSHS370	1-5/8"	1/2"	6"
SMSHS375	1-11/16"	1/2"	6"
SMSHS380	1-3/4"	1/2"	6"
SMSHS385	1-13/16"	1/2"	6"
SMSHS390	1-7/8"	1/2"	6"
SMSHS395	1-15/16"	1/2"	6"
SMSHS400	2"	1/2"	6"
SMSHS411	2-1/8"	1/2"	6"
SMSHS413	2-1/4"	1/2"	6"
SMSHS414	2-3/8"	1/2"	6"
SMSHS415	2-1/2"	1/2"	6"
SMSHS420	2-5/8"	1/2"	6"
SMSHS425	2-3/4"	1/2"	6"
SMSHS430	2-7/8"	1/2"	6"
SMSHS435	3"	1/2"	6"
SMSHS440-34*	3 1/8"	3/4"	6"
SMSHS440	3-1/8"	1/2"	6"
SMSHS445-34*	3-1/4"	3/4"	6"
SMSHS445	3-1/4"	1/2"	6"
SMSHS450-34*	3-1/2"	3/4"	6"
SMSHS450	3-1/2"	1/2"	6"
SMSHS455-34*	3-3/4"	3/4"	6"
SMSHS455	3-3/4"	5/8"	6"
SMSHS460-34*	4"	3/4"	6"
SMSHS460	4"	5/8"	6"

\*3/4 shank

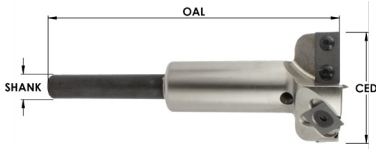
## 2 WING DOOR DRILLS - ECONOMY



PART #	CED	SHANK	OAL	DESCRIPTION
SE6100	2-1/8"	1/2"	6"	Without Flat
SE6100F	2-1/8"	1/2"	6"	With Flat

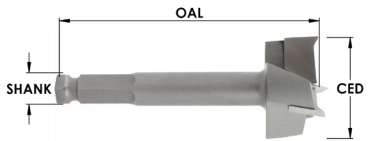
**CAUTION: TO BE USED IN A DRILL PRESS, MILLING MACHINE OR BORING MACHINE ONLY**

## CARBIDE INSERT DRILL BIT



PART #	CED	SHANK	OAL	DESCRIPTION
SEID218	2-1/8"	1/2"	5-3/4"	
SI-141420				14 x14 x20mm insert (Box of 10) for Spur
SI-251215-2				25 x 12 x1.5mm insert (Box of 10) for Plow
SEM5-SCREW				M5 Spur Screw
SEM35-SCREW				M35 Plow Screw
SEC-POINT				2-51HC Center Drill
SEC-SCREW				6mm x 12mm Set Screw

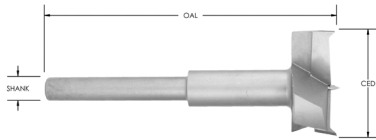
## 3 WING QUICK CHANGE DOOR DRILLS



PART #	CED	SHANK	OAL
SDR310-QCF	7/8"	1/2"	3-3/4"
SDR320-QCF	1"	1/2"	3-7/8"

*Used for fiberglass cutting in the boat or RV industries*

## 3 WING DOOR DRILL BITS



**CAUTION: TO BE USED  
IN A DRILL PRESS,  
MILLING MACHINE  
OR BORING MACHINE  
ONLY**

PART #	CED	SHANK	OAL
SDR290	1/2"	1/2"	6"
SDR295	9/16"	1/2"	6"
SDR305	5/8"	1/2"	6"
SDR303	11/16"	1/2"	6"
SDR300	3/4"	1/2"	6"
SDR306	13/16"	1/2"	6"
SDR310	7/8"	1/2"	6"
SDR315	15/16"	1/2"	6"
SDR320	1"	1/2"	6"
SDR325	1-1/16"	1/2"	6"
SDR330	1-1/8"	1/2"	6"
SDR340	1-1/4"	1/2"	6"
SDR350	1-3/8"	1/2"	6"
SDR360	1-1/2"	1/2"	6"
SDR370	1-5/8"	1/2"	6"
SDR380	1-3/4"	1/2"	6"
SDR390	1-7/8"	1/2"	6"
SDR400	2"	1/2"	6"
SDR410	2-1/8"	1/2"	6"
SDR413	2-1/4"	1/2"	6"
SDR414	2-3/8"	1/2"	6"
SDR415	2-1/2"	1/2"	6"
SDR424	2-15/16"	1/2"	6"
SDR425	3"	1/2"	6"
SDR430	3-1/4"	1/2"	6"
SDR440	3-3/4"	1/2"	6"
SDR-DRILL		Replacement Drill	
SDR-SCREW		Replacement Screw	

*Full Shanks on Bits up to and including SDR350*

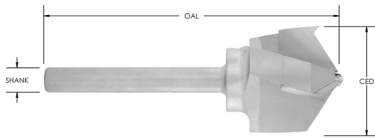
*Special sizes available, call for a quote.*

*Add F to end of part number for 1 Flat on Shank*

*Add F3 to end of part number for 3 Flats on Shank*

*These drills can be re-tipped, call for pricing.*

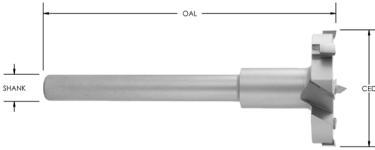
### 3 WING DOOR KNOB DRILLS



PART #	CED	SHANK	OAL	DESCRIPTION
SDK500	2-1/8"	1/2"	5-3/4"	No Flat
SDK510	2-1/8"	1/2"	5-3/4"	With Flat
SDK510-750	2-1/8"	3/4"	5-3/4"	With Flat
SDK560	Replacement Center Drill			
SDK565	Replacement Screw			

**CAUTION: TO BE USED IN A DRILL PRESS, MILLING MACHINE OR BORING MACHINE ONLY**

### DOOR KNOB DRILLS

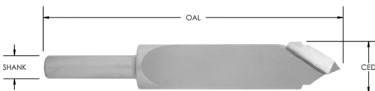


PART #	CED	SHANK	OAL	DESCRIPTION
SLOC600	2-1/8"	1/2"	5-3/4"	With Flat
SLOC605	2-1/8"	1/2"	5-3/4"	With 3 Flats
SLOC610	2-1/8"	1/2"	5-3/4"	Without Flat
SLOC620	Replacement Center Drill			
SDR-SCREW	Replacement Screw			

**FOR AUTOMATED PRE-HUNG DOOR EQUIPMENT**

**CAUTION: TO BE USED IN A DRILL PRESS, MILLING MACHINE OR BORING MACHINE ONLY**

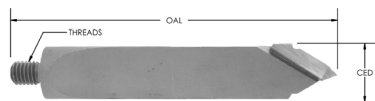
### LATCH BORE BIT



PART #	CED	SHANK	OAL	DESCRIPTION
SLAT670	7/8"	1/2"	6"	Without Flat
SLAT680	7/8"	1/2"	6"	With Flat
SLAT720	15/16"	1/2"	6"	Without Flat
SLAT730	15/16"	1/2"	6"	With Flat
SLAT770	1"	1/2"	6"	Without Flat
SLAT780	1"	1/2"	6"	With Flat
SLAT800	1-1/16"	1/2"	6"	Without Flat
SLAT810	1-1/16"	1/2"	6"	With Flat

**FOR AUTOMATED PRE-HUNG DOOR EQUIPMENT**

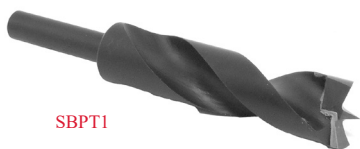
### LATCH BORE BIT WITH THREADED SHANK



PART #	CED	THREAD	OAL	DESCRIPTION
SLAT690	7/8"	7/16"X 14	5-7/8"	Threaded Shank
SLAT740	15/16"	7/16"X 14	5-7/8"	Threaded Shank
SLAT790	1"	7/16"X 14	5-7/8"	Threaded Shank
SLAT820	1-1/16"	7/16"X 14	5-7/8"	Threaded Shank

**FOR AUTOMATED PRE-HUNG DOOR EQUIPMENT**

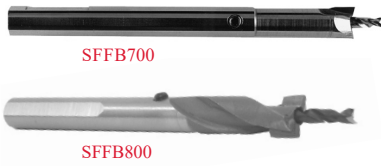
### CARBIDE TIPPED BRAD POINT TWIST DRILLS



PART #	CED	CEL	SHANK	OAL	DESCRIPTION
SBPT1	1"	4"	1/2"	6"	No Flat
SBPT1F	1"	4"	1/2"	6"	With Flat
SBPT1T	1"	4"	7/16"-14	5 13/16"	Threaded Shank

SBPT1

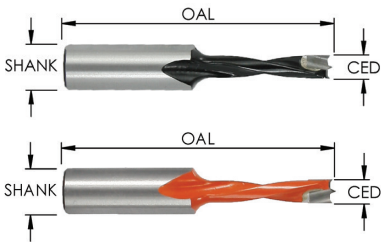
## FACE FRAME BITS



PART #	CED	OAL	PILOT DRILL	DESCRIPTION
SFFB700	3/8"	4"	#29	Complete Assembly
SFFB800	3/8"	4"	#29	Complete Assembly
SFFB900	3/8"	6"	#29	Complete Assembly
SFFB1000	3/8"	6-3/4"	#29	Complete Assembly
SFFB710			#29 Pilot Drill Only	
SFFB720			Replacement Set Screw	

## BRAD POINT AND THROUGH HOLE BITS

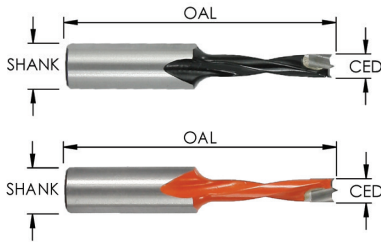
### BRAD POINT - 57MM OAL



PART # Right-Hand	PART # Left-Hand	Brad Point CED	Shank	OAL
SE5703RH	SE5703LH	3mm	10mm	57mm
SE5704RH	SE5704LH	4mm	10mm	57mm
SE57045RH	SE57045LH	4.5mm	10mm	57mm
SE57187RH	SE57187LH	4.76mm (3/16")	10mm	57mm
SE5705RH	SE5705LH	5mm	10mm	57mm
SE57051RH	SE57051LH	5.1mm	10mm	57mm
SE57055RH	SE57055LH	5.5mm (7/32")	10mm	57mm
SE5706RH	SE5706LH	6mm	10mm	57mm
SE57250RH	SE57250LH	6.35mm (1/4")	10mm	57mm
SE57065RH	SE57065LH	6.5mm	10mm	57mm
SE57067RH	SE57067LH	6.7mm	10mm	57mm
SE5707RH	SE5707LH	7mm	10mm	57mm
SE57075RH	SE57075LH	7.5mm	10mm	57mm
SE5708RH	SE5708LH	8mm	10mm	57mm
SE57082RH	SE57082LH	8.2mm	10mm	57mm
SE57085RH	SE57085LH	8.5mm	10mm	57mm
SE5709RH	SE5709LH	9mm	10mm	57mm
SE57375RH	SE57375LH	9.52mm (3/8")	10mm	57mm
SE5710RH	SE5710LH	10mm	10mm	57mm
SE5711RH	SE5711LH	11mm	10mm	57mm
SE57438RH	SE57438LH	11.1mm (7/16")	10mm	57mm
SE5712RH	SE5712LH	12mm	10mm	57mm
SE57500RH	SE57500LH	12.7mm (1/2")	10mm	57mm
SE5713RH	SE5713LH	13mm	10mm	57mm
SE5714RH	SE5714LH	14mm	10mm	57mm
SE5715RH	SE5715LH	15mm	10mm	57mm
SE57625RH	SE57625LH	15.9mm (5/8")	10mm	57mm
SE5716RH	SE5716LH	16mm	10mm	57mm
SE5717RH	SE5717LH	17mm	10mm	57mm
SE5718RH	SE5718LH	18mm	10mm	57mm
SE5719RH	SE5719LH	19mm	10mm	57mm
SE5720RH	SE5720LH	20mm	10mm	57mm

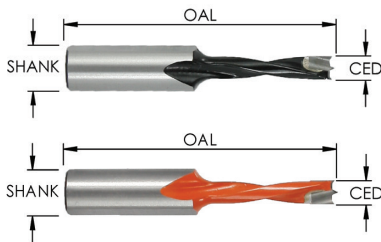


## BRAD POINT - 70MM OAL



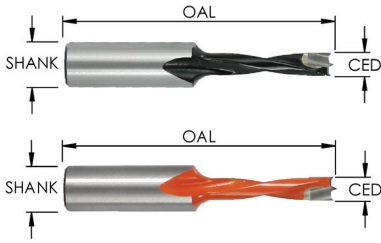
PART # Right-Hand	PART # Left-Hand	Brad Point CED	Shank	OAL
SE7003RH	SE7003LH	3mm	10mm	70mm
SE7004RH	SE7004LH	4mm	10mm	70mm
SE70045RH	SE70045LH	4.5mm	10mm	70mm
SE70187RH	SE70187LH	4.76mm (3/16")	10mm	70mm
SE7005RH	SE7005LH	5mm	10mm	70mm
SE70051RH	SE70051LH	5.1mm	10mm	70mm
SE70055RH	SE70055LH	5.5mm (7/32")	10mm	70mm
SE7006RH	SE7006LH	6mm	10mm	70mm
SE70250RH	SE70250LH	6.35mm (1/4")	10mm	70mm
SE70065RH	SE70065LH	6.5mm	10mm	70mm
SE70067RH	SE70067LH	6.7mm	10mm	70mm
SE7007RH	SE7007LH	7mm	10mm	70mm
SE70071RH	SE70071LH	7.1mm	10mm	70mm
SE70075RH	SE70075LH	7.5mm	10mm	70mm
SE7008RH	SE7008LH	8mm	10mm	70mm
SE70082RH	SE70082LH	8.2mm	10mm	70mm
SE70085RH	SE70085LH	8.5mm	10mm	70mm
SE7009RH	SE7009LH	9mm	10mm	70mm
SE70375RH	SE70375LH	9.52mm (3/8")	10mm	70mm
SE7010RH	SE7010LH	10mm	10mm	70mm
SE70104RH	SE70104LH	10.4mm	10mm	70mm
SE7011RH	SE7011LH	11mm	10mm	70mm
SE70438RH	SE70438LH	11.1mm (7/16")	10mm	70mm
SE7012RH	SE7012LH	12mm	10mm	70mm
SE70500RH	SE70500LH	12.7mm (1/2")	10mm	70mm
SE7013RH	SE7013LH	13mm	10mm	70mm
SE7014RH	SE7014LH	14mm	10mm	70mm
SE70562RH	SE70562LH	14.27mm (9/16")	10mm	70mm
SE7015RH	SE7015LH	15mm	10mm	70mm
SE70625RH	SE70625LH	15.9mm (5/8")	10mm	70mm
SE7016RH	SE7016LH	16mm	10mm	70mm
SE70165RH	SE70165LH	16.5mm	10mm	70mm
SE7017RH	SE7017LH	17mm	10mm	70mm
SE7018RH	SE7018LH	18mm	10mm	70mm
SE7019RH	SE7019LH	19mm	10mm	70mm
SE7020RH	SE7020LH	20mm	10mm	70mm
SE7025RH	SE7025LH	25mm	10mm	70mm

## BRAD POINT - 77MM OAL



PART # Right-Hand	PART # Left-Hand	Brad Point CED	Shank	OAL
SE7704RH	SE7704LH	4mm	10mm	77mm
SE7705RH	SE7705LH	5mm	10mm	77mm
SE7706RH	SE7706LH	6mm	10mm	77mm
SE77250RH	SE77250LH	6.35mm (1/4")	10mm	77mm
SE7707RH	SE7707LH	7mm	10mm	77mm
SE7708RH	SE7708LH	8mm	10mm	77mm
SE77375RH	SE77375LH	9.52mm (3/8")	10mm	77mm
SE7710RH	SE7710LH	10mm	10mm	77mm
SE77438RH	SE77438LH	11.1mm (7/16")	10mm	77mm
SE7712RH	SE7712LH	12mm	10mm	77mm

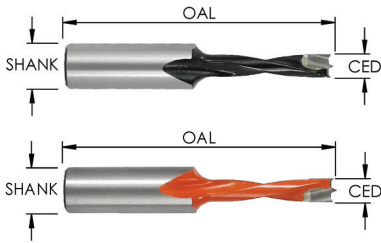
## BRAD POINT - 70MM OAL - 30MM LONG SHANK



PART # Right-Hand	PART # Left-Hand	Brad Point CED	Shank	OAL
SE7005RHS30	SE7005LHS30	5mm	10mm	70mm
SE7008RHS30	SE7008LHS30	8mm	10mm	70mm

*Shank is 30mm long. It is 5mm longer than the standard length shank.*

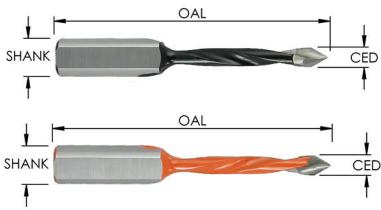
## BRAD POINT - 63.5MM OAL WITH 1/4" SHANK



PART # Right-Hand	PART # Left-Hand	Brad Point CED	Shank	OAL
SE63505RH	SE63505LH	5mm	1/4"	63.5mm (2-1/2")
SE635250RH	SE635250LH	6.35mm (1/4")	1/4"	63.5mm (2-1/2")
SE63505RH-F	SE63505LH-F	5mm	1/4"	63.5mm (2-1/2")
SE635250RH-F	SE635250LH-F	6.35mm (1/4")	1/4"	63.5mm (2-1/2")

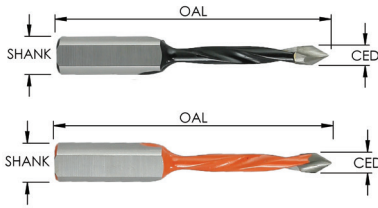
*F - with Flat*

## V-POINT - 58MM OAL



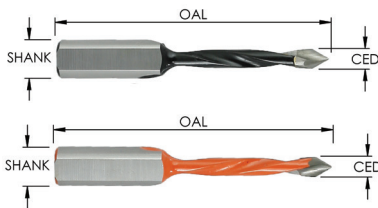
PART # Right-Hand	PART # Left-Hand	V-Point CED	Shank	OAL
SEV5803RH	SEV5803LH	3mm	10mm	58mm
SEV5804RH	SEV5804LH	4mm	10mm	58mm
SEV58187RH	SEV58187LH	4.76mm (3/16")	10mm	58mm
SEV5805RH	SEV5805LH	5mm	10mm	58mm
SEV58055RH	SEV58055LH	5.5mm (7/32")	10mm	58mm
SEV5806RH	SEV5806LH	6mm	10mm	58mm
SEV58250RH	SEV58250LH	6.35mm (1/4")	10mm	58mm
SEV58065RH	SEV58065LH	6.5mm	10mm	58mm
SEV5807RH	SEV5807LH	7mm	10mm	58mm
SEV58079RH	SEV58079LH	7.9mm	10mm	58mm
SEV5808RH	SEV5808LH	8mm	10mm	58mm
SEV5809RH	SEV5809LH	9mm	10mm	58mm
SEV58375RH	SEV58375LH	9.52mm (3/8")	10mm	58mm
SEV5810RH	SEV5810LH	10mm	10mm	58mm
SEV5811RH	SEV5811LH	11mm	10mm	58mm
SEV58111RH	SEV58111LH	11.1mm (7/16")	10mm	58mm
SEV5812RH	SEV5812LH	12mm	10mm	58mm
SEV58500RH	SEV58500LH	12.7mm (1/2")	10mm	58mm
SEV5813RH	SEV5813LH	13mm	10mm	58mm
SEV5814RH	SEV5814LH	14mm	10mm	58mm
SEV5815RH	SEV5815LH	15mm	10mm	58mm
SEV5816RH	SEV5816LH	16mm	10mm	58mm
SEV5818RH	SEV5818LH	18mm	10mm	58mm

## V POINT - 70MM OAL



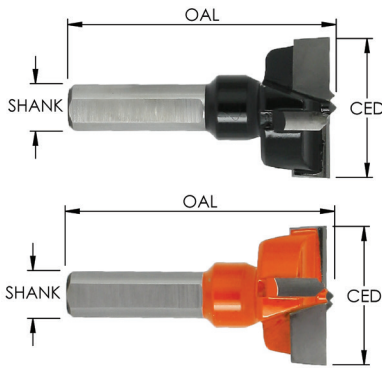
PART # Right-Hand	PART # Left-Hand	V-Point CED	Shank	OAL
SEV7003RH	SEV7003LH	3mm	10mm	70mm
SEV7004RH	SEV7004LH	4mm	10mm	70mm
SEV70187RH	SEV70187LH	4.76mm (3/16")	10mm	70mm
SEV7005RH	SEV7005LH	5mm	10mm	70mm
SEV70055RH	SEV70055LH	5.5mm (7/32")	10mm	70mm
SEV7006RH	SEV7006LH	6mm	10mm	70mm
SEV70250RH	SEV70250LH	6.35mm (1/4")	10mm	70mm
SEV70065RH	SEV70065LH	6.5mm	10mm	70mm
SEV7007RH	SEV7007LH	7mm	10mm	70mm
SEV70071RH	SEV70071LH	7.1mm	10mm	70mm
SEV7008RH	SEV7008LH	8mm	10mm	70mm
SEV70082RH	SEV70082LH	8.2mm	10mm	70mm
SEV7009RH	SEV7009LH	9mm	10mm	70mm
SEV70375RH	SEV70375LH	9.52mm (3/8")	10mm	70mm
SEV7010RH	SEV7010LH	10mm	10mm	70mm
SEV70102RH	SEV70102LH	10.2mm	10mm	70mm
SEV70104RH	SEV70104LH	10.4mm	10mm	70mm
SEV7011RH	SEV7011LH	11mm	10mm	70mm
SEV70111RH	SEV70111LH	11.1mm (7/16")	10mm	70mm
SEV7012RH	SEV7012LH	12mm	10mm	70mm
SEV70500RH	SEV70500LH	12.7mm (1/2")	10mm	70mm
SEV7013RH	SEV7013LH	13mm	10mm	70mm
SEV7014RH	SEV7014LH	14mm	10mm	70mm
SEV70142RH	SEV70142LH	14.2mm (9/16")	10mm	70mm
SEV7015RH	SEV7015LH	15mm	10mm	70mm
SEV7016RH	SEV7016LH	16mm	10mm	70mm
SEV7017RH	SEV7017LH	17mm	10mm	70mm
SEV7018RH	SEV7018LH	18mm	10mm	70mm
SEV7019RH	SEV7019LH	19mm	10mm	70mm

## V POINT - 77MM OAL



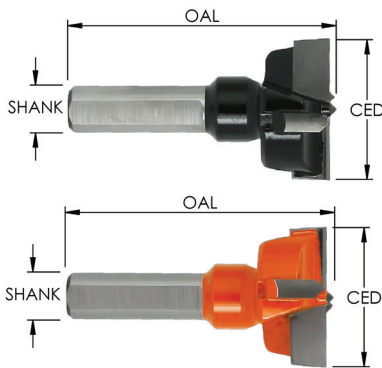
PART # Right-Hand	PART # Left-Hand	V-Point CED	Shank	OAL
SEV7704RH	SEV7704LH	4mm	10mm	77mm
SEV7705RH	SEV7705LH	5mm	10mm	77mm
SEV7706RH	SEV7706LH	6mm	10mm	77mm
SEV7707RH	SEV7707LH	7mm	10mm	77mm
SEV7708RH	SEV7708LH	8mm	10mm	77mm
SEV7710RH	SEV7710LH	10mm	10mm	77mm
SEV77438RH	SEV77438LH	11.1mm (7/16")	10mm	77mm
SEV7712RH	SEV7712LH	12mm	10mm	77mm

## HINGE BITS - 57MM OAL



PART # Right-Hand	PART # Left-Hand	Hinge Bit CED	SHANK	OAL
SEHB5715RH	SEHB5715LH	15mm	10mm	57mm
SEHB5716RH	SEHB5716LH	16mm	10mm	57mm
SEHB5717RH	SEHB5717LH	17mm	10mm	57mm
SEHB5718RH	SEHB5718LH	18mm	10mm	57mm
SEHB5719RH	SEHB5719LH	19mm	10mm	57mm
SEHB5720RH	SEHB5720LH	20mm	10mm	57mm
SEHB5722RH	SEHB5722LH	22mm	10mm	57mm
SEHB5724RH	SEHB5724LH	24mm	10mm	57mm
SEHB5725RH	SEHB5725LH	25mm	10mm	57mm
SEHB5726RH	SEHB5726LH	26mm	10mm	57mm
SEHB5728RH	SEHB5728LH	28mm	10mm	57mm
SEHB5730RH	SEHB5730LH	30mm	10mm	57mm
SEHB5732RH	SEHB5732LH	32mm	10mm	57mm
SEHB5734RH	SEHB5734LH	34mm	10mm	57mm
SEHB5735RH	SEHB5735LH	35mm	10mm	57mm
SEHB5736RH	SEHB5736LH	36mm	10mm	57mm
SEHB5738RH	SEHB5738LH	38mm	10mm	57mm
SEHB5740RH	SEHB5740LH	40mm	10mm	57mm

## HINGE BITS - 70MM OAL



PART # Right-Hand	PART # Left-Hand	Hinge Bit CED	Shank	OAL
SEHB7015RH	SEHB7015LH	15mm	10mm	70mm
SEHB7016RH	SEHB7016LH	16mm	10mm	70mm
SEHB70165RH	SEHB70165LH	16.5mm	10mm	70mm
SEHB7017RH	SEHB7017LH	17mm	10mm	70mm
SEHB7018RH	SEHB7018LH	18mm	10mm	70mm
SEHB7019RH	SEHB7019LH	19mm	10mm	70mm
SEHB7020RH	SEHB7020LH	20mm	10mm	70mm
SEHB7022RH	SEHB7022LH	22mm	10mm	70mm
SEHB7024RH	SEHB7024LH	24mm	10mm	70mm
SEHB7025RH	SEHB7025LH	25mm	10mm	70mm
SEHB7026RH	SEHB7026LH	26mm	10mm	70mm
SEHB7028RH	SEHB7028LH	28mm	10mm	70mm
SEHB7030RH	SEHB7030LH	30mm	10mm	70mm
SEHB7032RH	SEHB7032LH	32mm	10mm	70mm
SEHB7034RH	SEHB7034LH	34mm	10mm	70mm
SEHB7035RH	SEHB7035LH	35mm	10mm	70mm
SEHB7036RH	SEHB7036LH	36mm	10mm	70mm
SEHB7038RH	SEHB7038LH	38mm	10mm	70mm
SEHB7040RH	SEHB7040LH	40mm	10mm	70mm

## SOLID CARBIDE CENTER DRILLS WITH DRILL POINT



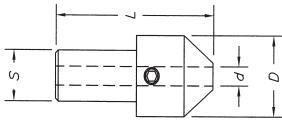
PART # Right-Hand	PART # Left-Hand	CED	SHANK	OAL
<b>Center Drills * Drill Point</b>				
CD4502RH	CD4502LH	2mm	2mm	45mm
CD53025RH	CD53025LH	2.5mm	2.5mm	53mm
CD53028RH	CD53028LH	2.8mm	2.8mm	53mm

## SOLID CARBIDE CENTER DRILLS WITH BRAD POINT



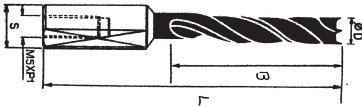
PART # Right-Hand	PART # Left-Hand	CED	SHANK	OAL
BPD5303RH	BPD5303LH	3mm	3mm	53mm
BPD53032RH	BPD53032LH	3.2mm	3.2mm	53mm
BPD53035RH	BPD53035LH	3.5mm	3.5mm	53mm
BPD5304RH	BPD5304LH	4mm	4mm	53mm
BPD53045RH	BPD53045LH	4.5mm	4.5mm	53mm
BPD5305RH	BPD5305LH	5mm	5mm	53mm

## DRILL ADAPTERS



PART #	Drill Hole Size	Diameter	Shank	OAL
DA3502	2mm	15mm	10mm	35mm
DA35025	2.5mm	15mm	10mm	35mm
DA35028	2.8mm	15mm	10mm	35mm
DA3503	3mm	15mm	10mm	35mm
DA35032	3.2mm	15mm	10mm	35mm
DA35035	3.5mm	15mm	10mm	35mm
DA3504	4mm	15mm	10mm	35mm
DA35045	4.5mm	15mm	10mm	35mm
DA3505	5mm	15mm	10mm	35mm
DACSP screw		Replacement Screw		

## SOLID CARBIDE BORING BITS WITH STEEL SHANK - BRAD POINT



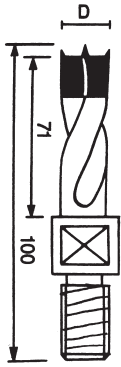
PART # Right-Hand	PART # Left-Hand	Brad Point CED	Twist Length	Shank	OAL
SCBP5703RH	SCBP5703LH	3mm	18mm	10mm	57mm
SCBP5704RH	SCBP5704LH	4mm	20mm	10mm	57mm
SCBP5705RH	SCBP5705LH	5mm	20mm	10mm	57mm
SCBP5706RH	SCBP5706LH	6mm	20mm	10mm	57mm
SCBP5708RH	SCBP5708LH	8mm	20mm	10mm	57mm
SCBP7003RH	SCBP7003LH	3mm	40mm	10mm	70mm
SCBP7004RH	SCBP7004LH	4mm	40mm	10mm	70mm
SCBP7005RH	SCBP7005LH	5mm	40mm	10mm	70mm
SCBP7006RH	SCBP7006LH	6mm	40mm	10mm	70mm
SCBP7008RH	SCBP7008LH	8mm	40mm	10mm	70mm
SCBP7010RH	SCBP7010LH	10mm	30mm	10mm	70mm

## SOLID CARBIDE BORING BITS WITH STEEL SHANK - V-POINT



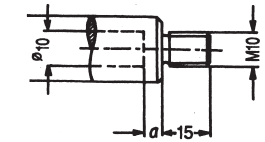
PART # Right-Hand	PART # Left-Hand	V-Point CED	Twist Length	Shank	OAL
SCVP5805RH	SCVP5805LH	5mm	30mm	10mm	58mm
SCVP5808RH	SCVP5808LH	8mm	30mm	10mm	58mm
SCVP7005RH	SCVP7005LH	5mm	40mm	10mm	70mm
SCVP7008RH	SCVP7008LH	8mm	40mm	10mm	70mm

## CARBIDE-TIPPED THREADED SHANK DOWEL DRILLS

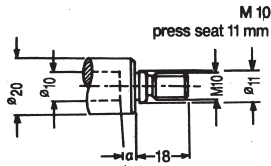


PART # Right-Hand	PART # Left-Hand	Diameter	Shank Thread	OAL
SETSM8005RH	SETSM8005LH	5mm	M8 x 1.25	100mm
SETSM8006RH	SETSM8006LH	6mm	M8 x 1.25	100mm
SETSM8008RH	SETSM8008LH	8mm	M8 x 1.25	100mm
SETSM8010RH	SETSM8010LH	10mm	M8 x 1.25	100mm
SETSM8012RH	SETSM8012LH	12mm	M8 x 1.25	100mm
SETSM8015RH	SETSM8015LH	15mm	M8 x 1.25	100mm
SETSM1005RH	SETSM1005LH	5mm	M10 x 1.5	100mm
SETSM1006RH	SETSM1006LH	6mm	M10 x 1.5	100mm
SETSM1008RH	SETSM1008LH	8mm	M10 x 1.5	100mm
SETSM1010RH	SETSM1010LH	10mm	M10 x 1.5	100mm
SETSM1012RH	SETSM1012LH	12mm	M10 x 1.5	100mm
SETSM1015RH	SETSM1015LH	15mm	M10 x 1.5	100mm

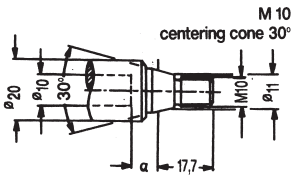
## CHUCK ADAPTERS WITH THREADED SHANK



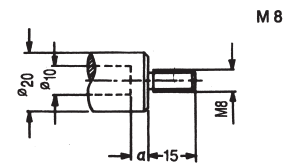
PART # RIGHT-HAND	PART # LEFT-HAND	SHANK THREADS	MACHINE(S)
QCDA1001RH	QCDA1002LH	M10	Ayen®, Mayer®, Torwegge®



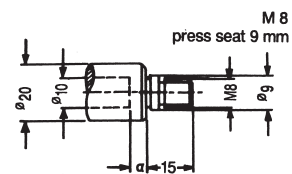
PART # RIGHT-HAND	PART # LEFT-HAND	SHANK THREADS	MACHINE(S)
QCDA1003RH	QCDA1004LH	M10	Morbidelli®, Weeke®, Holtzer®, SCMI®, Reimall®, Vitap®



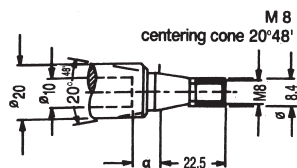
PART # RIGHT-HAND	PART # LEFT-HAND	SHANK THREADS	MACHINE(S)
QCDA1005RH	QCDA1006LH	M10	Busselatto®, Ompec®, Bilek®, Weeke®



PART # RIGHT-HAND	PART # LEFT-HAND	SHANK THREADS	MACHINE(S)
QCDA8001RH	QCDA8002LH	M8	Nottmeyer®



PART # RIGHT-HAND	PART # LEFT-HAND	SHANK THREADS	MACHINE(S)
QCDA8003RH	QCDA8004LH	M8	Nottmeyer®, Morbidelli®



PART # RIGHT-HAND	PART # LEFT-HAND	SHANK THREADS	MACHINE(S)
QCDA8005RH	QCDA8006LH	M8	Bilek®

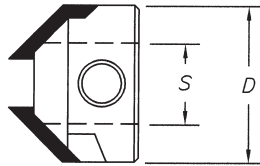


## QUICK CHANGE ADAPTER - BIESSE®



PART #	DESCRIPTION
RIGHT-HAND	
QCDA-Biesse®	10 x 20 x 37
QCDA-screw	screw for adapter
QCDA-Morbideli®	FM400

## CARBIDE-TIPPED COUNTERSINKS

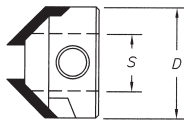


Replacement screw for the countersink above.  
Part # DACSP screw

PART #	PART #	DIAMETER	SIZE
RIGHT-HAND	LEFT-HAND		
CSP1604RH	CSP1604LH	16mm	4mm
CSP1605RH	CSP1605LH	16mm	5mm
CSP1606RH	CSP1606LH	16mm	6mm
CSP16250RH	CSP16250LH	16mm	6.35mm (1/4")
CSP1607RH	CSP1607LH	16mm	7mm
CSP1808RH	CSP1808LH	18mm	8mm
CSP1809RH	CSP1809LH	18mm	9mm
CSP2010RH	CSP2010LH	20mm	10mm
CSP2012RH	CSP2012LH	20mm	12mm

*These carbide-tipped countersinks are for clamping on the spiral of the Brad Point or V Point Drill. Use replacement screw DACSP screw.*

## CARBIDE-TIPPED COUNTERSINKS



PART #	PART #	FOR SIZES	SIZE
RIGHT-HAND	LEFT-HAND		
CSH20510RH	CSH20510LH	5mm to 10mm	5mm to 10mm
CSH201112RH	CSH201112LH	11mm to 12mm	11mm to 12mm

*These carbide-tipped countersinks are for clamping on the shank of the Brad Point or V Point Drill*

## CARBIDE-TIPPED COUNTERSINK - ADJUSTABLE 45° ANGLE



SE918

PART #	DESCRIPTION	FOR SCREW	SHANK
SE918	3/8" x 1/8"	# 4	5/16"
SE921	3/8" x 9/64"	# 6	5/16"
SE924	3/8" x 5/32"	# 8	5/16"
SE927	3/8" x 11/64"	# 8-9	5/16"
SE930	3/8" x 3/16"	# 10	5/16"

*Uses SFFB720*

## CARBIDE-TIPPED COUNTERBORES



PART #	PART #	DESCRIPTION	Shank	OAL
RIGHT-HAND	LEFT-HAND			
SE942	SE940	3/8" CD Bit	10mm	2-3/8"
SE946	SE944	3/16" Drill	3/16"	2-1/4"

*Counterbore and drill sold separately.*

## QUICK CHANGE ADAPTER FOR METRIC DRILLS



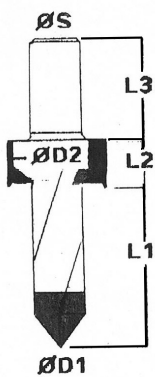
QCHDA250

PART #	SHANK	OAL
QCHDA250	1/4" Hex	1-3/4"

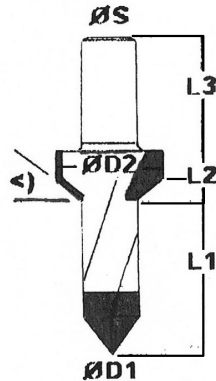


## COUNTERBORE & COUNTERSINK • ONE PIECE DESIGN

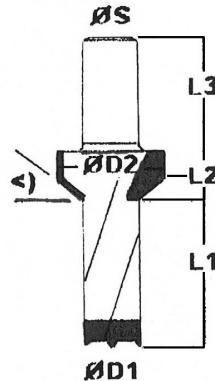
Southeast Tool can help with all of your specialty or custom tooling needs. Just determine your lengths, diameters and angles and we can provide the exact tool you need to do the job right!



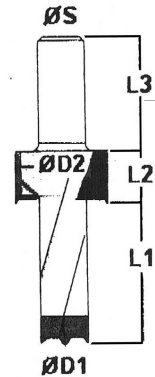
COUNTERBORE WITH V-POINT



COUNTERSINK WITH V-POINT



COUNTERSINK WITH BRAD POINT



COUNTERBORE WITH BRAD POINT

## DRILLS

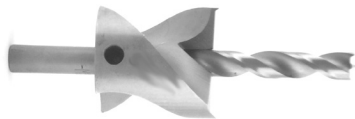
### ADJUSTABLE COUNTERBORE, STYLE NO. 5



5 Adjustable Counterbore

Designed for counterboring flat-bottom holes. Overall length is 4-1/2". Shank diameter is 1/2".

### ADJUSTABLE COUNTERBORE, STYLE NO. 5A



Designed for counterboring flat-bottom holes. Drill is held in place with two opposing set screws.

### CARBIDE-TIPPED COUNTERBORE, STYLE NO. 5CT



5CT Counterbore

Designed for counterboring flat-bottom holes.

### CARBIDE-TIPPED COUNTERSINK, STYLE NO. 5CT



5CT Countersink

Designed for countersinking holes for flat-head screws.

### SHORT-LENGTH COUNTERSINKS, STYLE NO. 5C



5C Short Length Countersink

Designed for countersinking holes for flat-head screws. Shank diameter is 1/2" x 1-1/2" long.

### ADJUSTABLE COUNTERSINK, STYLE NO. 5C



5C Adjustable Countersink

Designed for countersinking holes for flat-head screws. Overall length is 4-1/2". Shank diameter is 1/2".

### THREADED-SHANK ADJUSTABLE COUNTERBORE, STYLE NO. 514



Style 514 Counterbore

Designed for counterboring flat-bottom holes.

Overall length is 4-1/2". Shank length is 1-1/2". Shank thread is 7/16"-14

CALL FOR AVAILABILITY AND PRICING

### THREADED-SHANK ADJUSTABLE COUNTERSINK, STYLE NO. 514C



Style 514C Countersink

**Designed for countersinking holes for flat-head screws.**

Overall length is 4-1/2". Shank length is 1-1/2". Shank thread is 7/16"-14.

### CARBIDE-TIPPED ADJUSTABLE COUNTERBORE, STYLE NO. 514CT



Style 514CT Counterbore

**Designed for counterboring flat-bottom holes.**

### MORTISING BIT, STYLE NO. 6HS 2 Flute • Bi-Directional Cutting



Style 6HS

**Designed for use on vibrating mortising machines.**

### VIBRATING MORTISE BIT, STYLE NO. 46HS 2 Flute • Bi-Directional Cutting



Style 46HS

**Designed for use on vibrating mortising machines.**

### THREADED-SHANK DRILL-POINT DRILL, STYLE NO. 12HS • 90° Point For Woodworking



Style 12HS

Threaded shank is 7/16"-14.

### THREADED-SHANK BRAD-POINT DRILL, STYLE 14, 14A, 14ACT



Style 14

Threaded shank is 7/16"-14.

Made from carbon tool steel.

### THREADED-SHANK BRAD-POINT DRILL, STYLE 14AHS

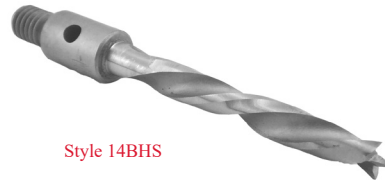


Style 14AHS

Threaded shank is 7/16"-14.

Made from high-speed steel.

### THREADED-SHANK BRAD-POINT DRILL, STYLE NO. 14BHS



Style 14BHS

Threaded shank is 7/16"-14.

Made from high-speed steel.

### CARBIDE-TIPPED THREADED-SHANK BRAD-POINT DRILLS, STYLE NO. 14CT



Style 14CT

Recommended for use in any wood product containing glue, or long production runs in hardwood. Performs well in many plastics, as well as in several composite materials, including fiberglass.

Threaded shank is 7/16"-14.

CALL FOR AVAILABILITY AND PRICING

### **Metric CARBIDE-TIPPED THREADED-SHANK BRAD-POINT DRILLS, STYLE NO. 14CT**

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Style 14CT

Recommended for use in any wood product containing glue, or long production runs in hardwood. Performs well in many plastics, as well as in several composite materials, including fiberglass.  
Threaded shank is 7/16"-14.

### **CARBIDE-TIPPED THREADED-SHANK (EXTENDED) BRAD-POINT DRILLS, STYLE NO. 14ESCT**

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Style 14ESCT

Recommended for use in any wood product containing glue, or long production runs in hardwood. Performs well in many plastics, as well as in several composite materials, including fiberglass.  
Threaded shank is 7/16"-14.

### **THREADED-SHANK (EXTENDED) BRAD-POINT DRILLS, STYLE NO. 14ESHS**

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Style 14ESHS

Threaded shank is 7/16"-14.  
Made from high-speed steel.

### **THREADED-SHANK (EXTENDED) BRAD-POINT DRILLS, STYLE NO. 14ESHS-L**

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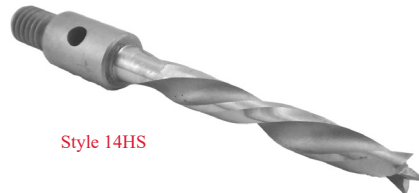


14ESHS-L

Threaded shank is 7/16"-14.  
Made from high-speed steel.

### **THREADED-SHANK BRAD-POINT DRILLS, STYLE NO. 14HS**

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Style 14HS

Threaded shank is 7/16"-14.  
Made from high-speed steel.

### **THREADED-SHANK BRAD-POINT DRILLS, STYLE NO. 14HSL**

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Style 14HSL

Threaded shank is 7/16"-14.  
Made from high-speed steel.

### **THREADED-SHANK BRAD-POINT DRILLS, STYLE NO. 14R**

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Style 14R

Threaded shank is 7/16"-14.  
Made from high-speed steel.

## CALL FOR AVAILABILITY AND PRICING CARBIDE-TIPPED ADJUSTABLE COUNTERSINK, STYLE 4CT



4CT Countersink

PART #	COUNTERSINK DIA	DRILL DIA	SHANK DIA X LENGTH	OAL
SE144000	3/8"	3/16"	1/2" x 3/8"	1-1/4"
SE14400	1/2"	1/8"		1-1/4"
SE14401	1/2"	3/16"		1-1/4"
SE14402	1/2"	7/32"		1-1/4"
SE14403	1/2"	1/4"		1-1/4"
SE144030	1/2"	5/16"	5/8 x 3/8"	1-1/4"

*CENTER DRILL ARE NOT INCLUDED*

## TAPER SHELL COUNTERSINK, STYLE 4



PART #	CED	CENTER DRILL DIA	SHANK	OAL
SE10400	3/8"	1/8"	1/2" x 3/8"	1-1/4"
SE10401	3/8"	3/16"	1/2" x 3/8"	1-1/4"
SE10402	1/2"	1/8"		1-1/4"
SE10404	1/2"	5/32"		1-1/4"
SE10406	1/2"	3/16"		1-1/4"
SE10408	1/2"	7/32"		1-1/4"
SE10409	1/2"	1/4"		1-1/4"
SE104094	1/2"	5/16"	5/8" x 3/8"	1-1/4"
SE10410	5/8"	1/4"		1-1/4"
SE10411	5/8"	5/16"		1-1/4"
SE10412	3/4"	5/16"		1-1/4"
SE10413	3/4"	3/8"		1-1/4"

*Center drills are not included in the sale of countersinks.*

## BRAD-POINT DRILL, STYLE 5BLHS



5BLHS Brad-Point

**Designed for use in bed-lock machines.**

**Made from high-speed steel.**

PART #	CED	CEL	SHANK	OAL
SE50134	19/64"	4"	2"	6"
SE50135	9/32"	4"	2"	6"

## COUNTERSINK BRAD-POINT DRILL, STYLE 5BPHS



5BPHS Countersink Brad-Point

**Made from high-speed steel.**

PART #	CED	CEL	SHANK	OAL
SE50216	1/8"	2-1/2"	1/8"	6"
SE50217	5/32"	2-1/2"	5/32"	6"
SE50218	3/16"	2-1/2"	3/16"	6"
SE50220	7/32"	2-1/2"	7/32"	6"
SE50221	1/4"	2-1/2"	1/4"	6"
SE50223	9/32"	2-1/2"	9/32"	6"
SE50224	5/16"	2-1/2"	5/16"	6"
SE502242	11/32"	2-1/2"	11/32"	6"
SE50225	3/8"	2-1/2"	3/8"	6"

*Other sizes available.*

## COUNTERSINK BRAD-POINT DRILL, STYLE 5BPHS-LH



5BPHS-LH Countersink Brad-Point

**LEFT-HAND ROTATION BITS.**

PART #	CED	CEL	SHANK	OAL
SE50226	3/16"	2-1/2"	3/16"	6"
SE50227	7/32"	2-1/2"	7/32"	6"
SE50228	1/4"	2-1/2"	1/4"	6"

## COUNTERSINK DRILL-POINT DRILL, STYLE 5HS



Style 5HS

**Made from high-speed steel.**

PART #	CED	CEL	SHANK	OAL
SE502001	3/32"	4"	3/32"	6"
SE50201	1/8"	2-1/2"	1/8"	6"
SE50202	5/32"	2-1/2"	5/32"	6"
SE50204	3/16"	2-1/2"	3/16"	6"
SE50206	7/32"	2-1/2"	7/32"	6"
SE50207	1/4"	2-1/2"	1/4"	6"
SE50209	9/32"	2-1/2"	9/32"	6"
SE50211	5/16"	2-1/2"	5/16"	6"
SE502111	11/32"	2-1/2"	11/32"	6"
SE50212	3/8"	2-1/2"	3/8"	6"
SE50219	13/64"	2-1/2"	13/64"	6"
SE50222	19/64"	2-1/2"	19/64"	6"

*Other sizes available*

## COUNTERSINK DRILL-POINT DRILL, STYLE 5HSLH



Style 5HSLH

**Left-Hand rotation**  
Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE50213	3/16"	2-1/2"	3/16"	6"
SE50214	7/32"	2-1/2"	7/32"	6"
SE50215	1/4"	2-1/2"	1/4"	6"

## V-POINT COUNTERSINK DRILL, STYLE 5VHS



Style 5VHS

PART #	CED	CEL	SHANK	OAL
SE50136HS	3/16"	2-1/2"	3/16"	6"
SE50137HS	7/32"	2-1/2"	7/32"	6"
SE50138HS	1/4"	2-1/2"	1/4"	6"

*Fish-tail point*

## COUNTERSINK BRAD-POINT DRILL, STYLE 5-7BPHS



STYLE 5-7BPHS

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE50704	3/16"	3"	3/16"	7"
SE50705	7/32"	3"	7/32"	7"
SE50706	1/4"	3-1/4"	1/4"	6"

## DRILL-POINT DRILL, STYLE 5-7HS



Style 7HS

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE50701HS	3/16"	3"	3/16"	7"
SE50702HS	7/32"	3"	7/32"	7"
SE50703HS	1/4"	3"	1/4"	7"

## COUNTERSINK BRAD-POINT DRILL, STYLE 5-8BPHS



STYLE 5-8BPHS

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE50804	3/16"	6"	3/16"	8"
SE50805	7/32"	6"	7/32"	8"
SE50806	1/4"	6"	1/4"	8"

## DRILL-POINT DRILL, STYLE 5-8HS



Style 5-8HS

PART #	CED	CEL	SHANK	OAL
SE50801HS	3/16"	4"	3/16"	8"
SE50802HS	7/32"	4"	7/32"	8"
SE50803HS	1/4"	4"	1/4"	8"

## BRAD-POINT DRILL, STYLE 8BPHS



STYLE 5-8BPHS

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE80210	1/8"	2-1/4"	1/8"	4-1/2"
SE80211	5/32"	2-1/4"	5/32"	4-1/2"
SE80212	3/16"	2-1/4"	3/16"	4-1/2"
SE80213	7/32"	2-1/4"	7/32"	4-1/2"
SE80214	1/4"	2-1/4"	1/4"	4-1/2"
SE80217	5/16"	2-1/4"	5/16"	4-1/2"
SE80218	3/8"	2-1/4"	3/8"	4-1/2"

*Other sizes available.*

## BRAD-POINT DRILL, STYLE 8BPHSLH



STYLE 5-8BPHSLH

**Left-Hand rotation**

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE80212L	3/16"	2-1/2"	3/16"	4-1/2"
SE80213L	7/32"	2"	7/32"	4-1/2"
SE80214L	1/4"	2"	1/4"	4-1/2"

## STRAIGHT SHANK BRAD-POINT DRILL, STYLE 13



Style 13

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE13001M	1/8"	1-5/8"	1/8"	2-3/4"
SE13002	5/32"	2"	5/32"	3-1/8"
SE13003M	3/16"	2-5/16"	3/16"	3-1/2"
SE13004	7/32"	2-1/2"	7/32"	3-3/4"
SE13005	1/4"	2-3/4"	1/4"	4"
SE13006	9/32"	2-15/16"	9/32"	4-1/4"
SE13007	5/16"	3-3/16"	5/16"	4-1/2"
SE13009	3/8"	3-5/8"	3/8"	5"
SE13010	7/16"	4-1/16"	3/8"	5-1/2"

Other sizes available

## BRAD-POINT DRILL, STYLE 13B



Style 13B

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE13101	5/16"	3-1/2"	1/4"	4-1/2"
SE13102	3/8"	3-1/2"	1/4"	4-1/2"
SE13103	7/16"	3-1/2"	1/4"	4-1/2"
SE13104	1/2"	3-1/2"	1/4"	4-1/2"

Other sizes available

## CARBIDE-TIPPED COUNTERSINK, STYLE 8CT - 82°



Style 8CT

Recommended for use in any wood product containing glue, or long production runs in hardwood. Performs well in many plastics, as well as in several composite materials, including fiberglass.

Center drill is held in place with a set screw.

*Please note that center drills are not included in the sale of counterbores.*

PART #	CED	CENTER DRILL	SHANK	OAL
SE18800	3/8"	3/16"	1/2"	3"
SE188001	7/16"	3/16"	1/2"	3"
SE188002	7/16"	7/32"	1/2"	3"
SE18801	1/2"	3/16"	1/2"	3"
SE18802	1/2"	7/32"	1/2"	3"
SE18803	1/2"	1/4"	1/2"	3"

## DRILL-POINT DRILL, STYLE 8HS



Style 8HS

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE80200	3/32"	2-1/4"	3/32"	4-1/2"
SE80201	1/8"	2-1/4"	1/8"	4-1/2"
SE80202	5/32"	2-1/4"	5/32"	4-1/2"
SE80204	3/16"	2-1/4"	3/16"	4-1/2"
SE80205	7/32"	2-1/4"	7/32"	4-1/2"
SE80206	1/4"	2-1/4"	1/4"	4-1/2"
SE80207	9/32"	2-1/4"	9/32"	4-1/2"
SE80208	5/16"	2-1/4"	5/16"	4-1/2"
SE80209	3/8"	2-1/4"	3/8"	4-1/2"

Other sizes available



## DRILL-POINT DRILL, STYLE 8HSLH



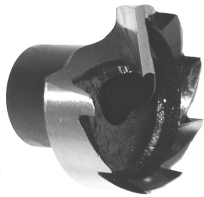
Style 8HSLH

Left-Hand rotation Bits.

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE802041	3/16"	2"	3/16"	4-1/2"
SE802051	7/32"	2"	7/32"	4-1/2"
SE802061	1/4"	2"	1/4"	4-1/2"

## MULTI-SPUR COUNTERBORE, STYLE 184



Style 184

Center drill is held in place with a set screw.

Available with carbide tips, by special order.

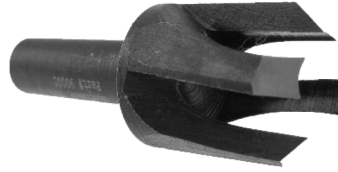
*Please note that center drills are not included in the sale of counterbores.*

PART #	CED	HOLE DIAMETER	OAL
SE18402	1-1/8"	1/2"	1-3/16"
SE18405	1-1/2"	1/2"	1-3/8"
SE18407	1-3/4"	1/2"	1-3/8"
SE18408	1-7/8"	1/2"	1-1/2"
SE18409	2"	1/2"	1-1/2"
SE18410	2-1/8"	1/2"	1-3/4"
SE18412	2-1/2"	1/2"	1-3/4"

*Other sizes are also available, by request.*

*The above tools are available in carbide-tipped; call for pricing.*

## SPIRAL PLUG CUTTER, STYLE 9B



Designed with a spiral flute to be free cutting, and opened up to allow easy plug removal.

Industrial design for true size plugs, even after several sharpenings.

Made from carbon tool steel.

PART #	CED	CEL	SHANK	OAL
SE90003*	3/8"	3-3/16"	1/2"	5-1/2"
SE90005*	1/2"	3-3/16"	1/2"	5-1/2"
SE90007*	5/8"	3-3/16"	1/2"	5-1/2"
SE90009*	3/4"	3-3/16"	1/2"	5-1/2"
SE90011**	7/8"	3-3/16"	1/2"	5-1/2"
SE90013**	1"	3-3/16"	1/2"	5-1/2"
SE90015**	1-1/4"	3-3/16"	1/2"	5-1/2"
SE90016**	1-3/8"	4-5/16"	1/2"	6-5/16"
SE90017**	1-1/2"	3-15/16"	1/2"	6-5/16"
SE90017A***	1-5/8"	3-15/16"	1/2"	6-5/16"
SE90018***	1-3/4"	3-15/16"	1/2"	6-5/16"
SE90019***	2"	3-15/16"	1/2"	6-5/16"

\* 4-Flute, \*\* 5-Flute, \*\*\* 6-Flute

## BRADPOINT DRILL, STYLE 13L



Style 13L

Made from high-speed steel.

PART #	CED	CEL	SHANK LENGTH	OAL
SE13501	1/8"	5-1/2"	2-1/2"	8"
SE13502	5/32"	5-1/2"	2-1/2"	8"
SE13503	3/16"	5-1/2"	2-1/2"	8"
SE13504	7/32"	5-1/2"	2-1/2"	8"
SE13505	1/4"	5-1/2"	2-1/2"	8"
SE13506	9/32"	5-1/2"	2-1/2"	8"
SE13507	5/16"	6"	2"	8"
SE13508	11/32"	5-1/2"	2-1/2"	8"
SE13509	3/8"	5-1/2"	2-1/2"	8"
SE13511	7/16"	5-1/2"	2-1/2"	8"
SE13513	1/2"	5-1/2"	2-1/2"	8"
SE13601	1/8"	7-1/2"	2-1/2"	10"
SE13603	3/16"	7-1/2"	2-1/2"	10"
SE13605	1/4"	7-1/2"	2-1/2"	10"

CONTINUED ON NEXT PAGE



SE13607	5/16"	7-1/2"	2-1/2"	10"
SE13609	3/8"	7-1/2"	2-1/2"	10"
SE13611	7/16"	7-1/2"	2-1/2"	10"
SE13613	1/2"	7-1/2"	2-1/2"	10"
SE13701	1/8"	9"	3"	12"
SE13702	5/32"	9"	3"	12"
SE13703	3/16"	9"	3"	12"
SE13704	7/32"	9"	3"	12"
SE13705	1/4"	9"	3"	12"
SE13706	9/32"	9"	3"	12"
SE13707	5/16"	9"	3"	12"
SE13709	3/8"	9"	3"	12"
SE13711	7/16"	9"	3"	12"
SE13713	1/2"	9"	3"	12"
SE13905	1/4"	11"	4"	15"
SE13907	5/16"	11"	4"	15"
SE13909	3/8"	11"	4"	15"
SE13911	7/16"	11"	4"	15"
SE13913	1/2"	11"	4"	15"
SE13805	1/4"	14"	4"	18"
SE13807	5/16"	14"	4"	18"
SE13809	3/8"	14"	4"	18"
SE13811	7/16"	14"	4"	18"
SE13813	1/2"	14"	4"	18"

Other sizes available  
Straight Shanks

## BRADPOINT DRILL, STYLE 13S

Designed for use in Ritter® R-26 and R-38 Boring Heads.



Style 13

Shanks are 1/4" x 1" long and features one flat.

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE13201L*	5mm	1-1/2"	1/4"	2-1/2"
SE13201R	5mm	1-1/2"	1/4"	2-1/2"
SE13202L*	1/4"	1-1/2"	1/4"	2-1/2"
SE13202R	1/4"	1-1/2"	1/4"	2-1/2"

\*LEFT-HAND ROTATION BITS

## CARBIDE-TIPPED BRAD POINT DRILL, STYLE 13CT

Designed for use in Ritter® R-26 and R-38 Boring Heads.

Recommended for use in any wood product containing glue, or long production runs in hardwood. Performs well in many plastics, as well as in several composite materials, including fiberglass.



Style 13CT

Shanks are 1/4" x 1" long and features one flat.

PART #	CED	CEL	SHANK	OAL
SE13301L*	5mm	1-1/2"	1/4"	2-1/2"
SE13301R	5mm	1-1/2"	1/4"	2-1/2"
SE13302L*	1/4"	1-1/2"	1/4"	2-1/2"
SE13302R	1/4"	1-1/2"	1/4"	2-1/2"

\*LEFT-HAND ROTATION BITS

## CARBIDE-TIPPED BRAD POINT DRILL, STYLE 19CT

Recommended for use in any wood product containing glue, or long production runs in hardwood. Performs well in many plastics, as well as in several composite materials, including fiberglass.

Right-hand rotation.



Style 19CT

PART #	CED	CEL	SHANK	OAL
SE19201	1/4"	3"	1/2"	5"
SE19202	9/32"	3"	1/2"	5"
SE19203	5/16"	3"	1/2"	5"
SE19204	3/8"	3"	1/2"	5"
SE19206	7/16"	3"	1/2"	5"
SE19207	1/2"	3"	1/2"	5"
SE19208	5/8"	3"	1/2"	5"
SE192084	11/16"	3"	1/2"	5"
SE19209	3/4"	3"	1/2"	5"
SE192091	7/8"	3"	1/2"	5"
SE1920914	15/16"	3"	1/2"	5"
SE19210	1"	3"	1/2"	5"

Other sizes available, call for pricing

## CARBIDE-TIPPED BRAD POINT DRILL, STYLE 19CT METRIC

Recommended for use in any wood product containing glue, or long production runs in hardwood. Performs well in many plastics, as well as in several composite materials, including fiberglass.

Right-hand rotation.



Style 19CT METRIC

PART #	CED	CEL	SHANK	OAL
SE1920301	8mm	3"	1/2"	5"
SE192051	10mm	3"	1/2"	5"
SE192064	12mm	3"	1/2"	5"
SE1920713	13mm	3"	1/2"	5"

## BRAD-POINT DRILL, STYLE NO. 19HS



Style 19HS

Made from high-speed steel. Right-Hand Rotation

PART #	CED	CEL	SHANK	OAL
SE19100	1/8"	3"	1/2"	5"
SE191002	5/32"	2-5/16"	1/2"	5"
SE19101	3/16"	3"	1/2"	5"
SE19102	7/32"	3"	1/2"	5"
SE19103	1/4"	3"	1/2"	5"
SE19104	9/32"	3"	1/2"	5"
SE191041	19/64"	3"	1/2"	5"
SE19105	5/16"	3"	1/2"	5"
SE191051	21/64"	3"	1/2"	5"
SE19106	11/32"	3"	1/2"	5"
SE19107	3/8"	3"	1/2"	5"
SE19108	25/64"	3"	1/2"	5"
SE19109	13/32"	3"	1/2"	5"
SE19110	7/16"	3"	1/2"	5"
SE19111	15/32"	3"	1/2"	5"
SE19112	1/2"	3"	1/2"	5"
SE191121	33/64"	3"	1/2"	5"
SE191122	17/32"	3"	1/2"	5"
SE19113	9/16"	3"	1/2"	5"
SE19114	5/8"	3"	1/2"	5"
SE1911441	11/16"	3"	1/2"	5"
SE19115	3/4"	3"	1/2"	5"
SE191154	13/16"	3"	1/2"	5"
SE191158	7/8"	3"	1/2"	5"
SE191159	15/16"	3"	1/2"	5"
SE19116	1"	3"	1/2"	5"
SE191160	1-1/8"	3"	1/2"	5"
SE191161	1-1/4"	3"	1/2"	5"

Other sizes available, call for pricing

## BRAD POINT DRILL, STYLE 19HS METRIC



Style 19HS

Made from high-speed steel. Right-hand rotation.

PART #	CED	CEL	SHANK	OAL
SE191010	5mm	3"	1/2"	5"
SE191020	6mm	3"	1/2"	5"
SE191030	7mm	3"	1/2"	5"
SE191050	8mm	3"	1/2"	5"
SE191060	9mm	3"	1/2"	5"
SE191080	10mm	3"	1/2"	5"
SE1911101	12mm	3"	1/2"	5"
SE191130	15mm	3"	1/2"	5"

## BRAD-POINT DRILL, STYLE NO 19HSL



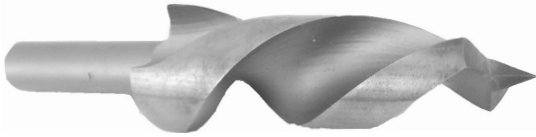
Style 19HSL

Made from high-speed steel. Left-hand rotation.

PART #	CED	CEL	SHANK	OAL
SE19101L	3/16"	3"	1/2"	5"
SE19103L	1/4"	3"	1/2"	5"
SE19105L	5/16"	3"	1/2"	5"
SE19107L	3/8"	3"	1/2"	5"
SE19110L	7/16"	3"	1/2"	5"
SE19112L	1/2"	3"	1/2"	5"

## TAPERED BRUSH-BLOCK DRILL, STYLE 19TP

Designed for boring brush-blocks.  
Bores right-hand with a left-hand twist to reduce chatter.



Style 19TP

Shank is 1/2" x 2" long.

Made from high-speed steel.

PART #	LG CED	SM CED	CEL	SHANK	OAL
SE19995	1-1/8"	11/16"	3"	1/2"	5"

## BRAD-POINT DRILL, STYLE 20BHS



Shank length 1-1/2".

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE20305HS	7/32"	4"	3/8"	5-1/2"
SE203050HS	1/4"	4"	3/8"	5-1/2"
SE203051HS	9/32"	4"	3/8"	5-1/2"
SE203052HS	5/16"	4"	3/8"	5-1/2"
SE203053HS	11/32"	4"	3/8"	5-1/2"
SE20307HS	3/8"	3-1/2"	3/8"	5"
SE203081HS	10mm	4"	3/8"	5-1/2"
SE20308HS	25/64"	4"	3/8"	5-1/2"
SE20309HS	13/32"	4"	3/8"	5-1/2"
SE20310HS	7/16"	4"	3/8"	5-1/2"
SE20311HS	15/32"	4"	3/8"	5-1/2"
SE20312HS	1/2"	4"	3/8"	5-1/2"
SE203122HS	13mm	4"	3/8"	5-1/2"
SE20313HS	17/32"	4"	3/8"	5-1/2"
SE20314HS	9/16"	4"	3/8"	5-1/2"
SE20315HS	5/8"	4"	3/8"	5-1/2"
SE20316HS	11/16"	4"	3/8"	5-1/2"
SE20317HS	3/4"	4"	3/8"	5-1/2"
SE20318HS	13/16"	4"	3/8"	5-1/2"
SE20319HS	7/8"	4"	3/8"	5-1/2"
SE20320HS	15/16"	4"	3/8"	5-1/2"
SE20321HS	1"	4"	3/8"	5-1/2"

Other sizes available, call for pricing

## CARBIDE-TIPPED BRAD-POINT DRILL, STYLE 20BCT

Recommended for use in any wood product containing glue, or long production runs in hardwood. Performs well in many plastics, as well as in several composite materials, including fiberglass.



Style 19BCT

PART #	CED	CEL	SHANK	OAL
SE20307CT	3/8"	4"	3/8"	5-1/2"
SE20308CT	25/64"	4"	3/8"	5-1/2"
SE20310CT	7/16"	4"	3/8"	5-1/2"
SE20312CT	1/2"	4"	3/8"	5-1/2"
SE20314CT	9/16"	4"	3/8"	5-1/2"
SE20315CT	5/8"	4"	3/8"	5-1/2"
SE20317CT	3/4"	4"	3/8"	5-1/2"

## CARBIDE-TIPPED BRAD-POINT DRILL, STYLE NO. 20CT



PART #	CED	CEL	SHANK	OAL
SE20701	1/4"	4"	1/2"	6"
SE20703	5/16"	4"	1/2"	6"
SE20704	3/8"	4"	1/2"	6"
SE20706	7/16"	4"	1/2"	6"
SE20707	1/2"	4"	1/2"	6"
SE20708	5/8"	4"	1/2"	6"
SE20709	3/4"	4"	1/2"	6"
SE207098	7/8"	4"	1/2"	6"
SE20710	1"	4"	1/2"	6"
SE2070912	15/16"	4"	1/2"	6"

Other sizes available, call for pricing

## BRAD-POINT DRILL, STYLE 20HS



Style 20HS

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE20100	1/8"	4"	1/2"	6"
SE201002	5/32"	4"	1/2"	6"
SE20101	3/16"	4"	1/2"	6"
SE201011	13/64"	4"	1/2"	6"
SE20102	7/32"	4"	1/2"	6"
SE20103	1/4"	4"	1/2"	6"
SE201031	17/64"	4"	1/2"	6"
SE20104	9/32"	4"	1/2"	6"
SE20105	5/16"	4"	1/2"	6"
SE201050	21/64"	4"	1/2"	6"
SE20106	11/32"	4"	1/2"	6"
SE20107	3/8"	4"	1/2"	6"
SE20108	25/64"	4"	1/2"	6"
SE20109	13/32"	4"	1/2"	6"
SE20110	7/16"	4"	1/2"	6"
SE201101	29/64"	4"	1/2"	6"
SE20111	15/32"	4"	1/2"	6"
SE20112	1/2"	4"	1/2"	6"
SE201121	33/64"	4"	1/2"	6"
SE20113	17/32"	4"	1/2"	6"
SE20114	9/16"	4"	1/2"	6"
SE201142	19/32"	4"	1/2"	6"
SE20115	5/8"	4"	1/2"	6"
SE201152	21/32"	4"	1/2"	6"
SE20116	11/16"	4"	1/2"	6"
SE201162	23/32"	4"	1/2"	6"
SE20117	3/4"	4"	1/2"	6"
SE201172	25/32"	4"	1/2"	6"
SE20118	13/16"	4"	1/2"	6"
SE201183	27/32"	4"	1/2"	6"
SE20119	7/8"	4"	1/2"	6"
SE201192	29/32"	4"	1/2"	6"
SE20120	15/16"	4"	1/2"	6"
SE201202	31/32"	4"	1/2"	6"
SE20121	1"	4"	1/2"	6"
SE201221	1 1/32"	4"	1/2"	6"
SE20122	1 1/16"	4"	1/2"	6"
SE20123	1 1/8"	4"	1/2"	6"
SE20124	1 1/4"	4"	1/2"	6"
SE20125	1 5/16"	4"	1/2"	6"
SE20126	1 3/8"	4"	1/2"	6"
SE20128	1 1/2"	4"	1/2"	6"

## BRAD-POINT DRILL, STYLE 20HSLH



Style 20HSLH

Left-Hand Rotation Bits.

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE20201HS	3/8"	4"	1/2"	6"
SE20202HS	7/16"	4"	1/2"	6"
SE20203HS	1/2"	4"	1/2"	6"

## CARBIDE-TIPPED BRAD POINT DRILL, STYLE 20-6CT

Recommended for use in any wood product containing glue, or long production runs in hardwood. Performs well in many plastics, as well as in several composite materials, including fiberglass.



Style 20-CT

PART #	CED	CEL	SHANK	OAL
SE20601CT	1/4"	6"	1/2"	8"
SE20602CT	5/16"	6"	1/2"	8"
SE20604CT	3/8"	6"	1/2"	8"
SE20606CT	7/16"	6"	1/2"	8"
SE20607CT	1/2"	6"	1/2"	8"
SE20609CT	5/8"	6"	1/2"	8"
SE20611CT	3/4"	6"	1/2"	8"
SE20613CT	7/8"	6"	1/2"	8"
SE20615CT	1"	6"	1/2"	8"

Other sizes available, call for pricing

## BRAD-POINT DRILL STYLE 20-6



Style 20-6

Made from carbon tool steel.

PART #	CED	CEL	SHANK	OAL
SE20601	1/4"	6"	1/2"	8"
SE20602	5/16"	6"	1/2"	8"
SE20603	11/32"	6"	1/2"	8"
SE20604	3/8"	6"	1/2"	8"
SE20605	13/32"	6"	1/2"	8"
SE20606	7/16"	6"	1/2"	8"
SE20607	1/2"	6"	1/2"	8"
SE20608	9/16"	6"	1/2"	8"
SE20609	5/8"	6"	1/2"	8"
SE20610	11/16"	6"	1/2"	8"
SE20611	3/4"	6"	1/2"	8"
SE20612	13/16"	6"	1/2"	8"
SE20613	7/8"	6"	1/2"	8"
SE20614	15/16"	6"	1/2"	8"
SE20615	1"	6"	1/2"	8"
SE20616	1-1/16"	6"	1/2"	8"
SE20617	1-1/8"	6"	1/2"	8"
SE20618	1-1/4"	6"	1/2"	8"

Other sizes available, call for pricing

## BRAD-POINT DRILL, STYLE 20-6HS



Style 20-6HS

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE20601HS	1/4"	6"	1/2"	8"
SE20602HS	5/16"	6"	1/2"	8"
SE20604HS	3/8"	6"	1/2"	8"
SE20605HS	13/32"	6"	1/2"	8"
SE20606HS	7/16"	6"	1/2"	8"
SE20607HS	1/2"	6"	1/2"	8"
SE20608HS	9/16"	6"	1/2"	8"
SE20609HS	5/8"	6"	1/2"	8"
SE20610HS	11/16"	6"	1/2"	8"
SE20611HS	3/4"	6"	1/2"	8"
SE20612HS	13/16"	6"	1/2"	8"
SE20613HS	7/8"	6"	1/2"	8"
SE20614HS	15/16"	6"	1/2"	8"
SE20615HS	1"	6"	1/2"	8"
SE20616HS	1-1/16"	6"	1/2"	8"
SE20617HS	1-1/8"	6"	1/2"	8"
SE20618HS	1-1/4"	6"	1/2"	8"

Other sizes available, call for pricing

## GENERAL PURPOSE DRILL, JOBBER LENGTH, STYLE 29 - 118° POINT



Style 29

Made from high-speed steel. Made in USA.

PART #	CED	CEL	SHANK	OAL
SE29001	1/64"	3/16"	1/64"	3/4"
SE29002	1/32"	1/2"	1/32"	1-3/8"
SE29003	3/64"	3/4"	3/64"	1-3/4"
SE29004	1/16"	7/8"	1/16"	1-7/8"
SE29005	5/64"	1"	5/64"	2"
SE29006	3/32"	1-1/4"	3/32"	2-1/4"
SE29007	7/64"	1-1/2"	7/64"	2-5/8"
SE29008	1/8"	1-5/8"	1/8"	2-3/4"
SE29009	9/64"	1-3/4"	9/64"	2-7/8"
SE29010	5/32"	2"	5/32"	3-1/8"
SE29011	11/64"	2-1/8"	11/64"	3-1/4"
SE29012	3/16"	2-5/16"	3/16"	3-1/2"
SE29013	13/64"	2-7/16"	13/64"	3-5/8"
SE29014	7/32"	2-1/2"	7/32"	3-3/4"
SE29015	15/64"	2-5/8"	15/64"	3-7/8"
SE29016	1/4"	2-3/4"	1/4"	4"
SE29017	17/64"	2-7/8"	17/64"	4-1/8"
SE29018	9/32"	2-15/16"	9/32"	4-1/4"
SE29019	19/64"	3-1/16"	19/64"	4-3/8"
SE29020	5/16"	3-3/16"	5/16"	4-1/2"
SE29021	21/64"	3-5/16"	21/64"	4-5/8"
SE29022	11/32"	3-7/16"	11/32"	4-3/4"
SE29023	23/64"	3-1/2"	23/64"	4-7/8"
SE29024	3/8"	3-5/8"	3/8"	5"
SE29025	25/64"	3-3/4"	25/64"	5-1/8"
SE29026	13/32"	3-7/8"	13/32"	5-1/4"
SE29027	27/64"	3-15/16"	27/64"	5-3/8"
SE29028	7/16"	4-1/16"	7/16"	5-1/2"
SE29029	29/64"	4-3/16"	29/64"	5-5/8"
SE29030	15/32"	4-5/16"	15/32"	5-3/4"
SE29031	31/64"	4-3/8"	31/64"	5-7/8"
SE29032	1/2"	4-1/2"	1/2"	6"

Shank length = OAL minus CEL

## GENERAL PURPOSE DRILL, JOBBER LENGTH, STYLE 29LH - 118° POINT



Style 29LH

Made from high-speed steel. Made in USA.  
Left-Hand Rotation

PART #	CED	CEL	SHANK	OAL
SE29002L	1/32"	1/2"	1/32"	1-3/8"
SE29003L	3/64"	3/4"	3/64"	1-3/4"
SE29004L	1/16"	7/8"	1/16"	1-7/8"
SE29005L	5/64"	1"	5/64"	2"
SE29006L	3/32"	1-1/4"	3/32"	2-1/4"
SE29007L	7/64"	1-1/2"	7/64"	2-5/8"
SE29008L	1/8"	1-5/8"	1/8"	2-3/4"
SE29009L	9/64"	1-3/4"	9/64"	2-7/8"
SE29010L	5/32"	2"	5/32"	3-1/8"
SE29011L	11/64"	2-1/8"	11/64"	3-1/4"
SE29012L	3/16"	2-5/16"	3/16"	3-1/2"
SE29013L	13/64"	2-7/16"	13/64"	3-5/8"
SE29014L	7/32"	2-1/2"	7/32"	3-3/4"
SE29015L	15/64"	2-5/8"	15/64"	3-7/8"
SE29016L	1/4"	2-3/4"	1/4"	4"
SE29017L	17/64"	2-7/8"	17/64"	4-1/8"
SE29018L	9/32"	2-15/16"	9/32"	4-1/4"
SE29019L	19/64"	3-1/16"	19/64"	4-3/8"
SE29020L	5/16"	3-3/16"	5/16"	4-1/2"
SE29021L	21/64"	3-5/16"	21/64"	4-5/8"
SE29022L	11/32"	3-7/16"	11/32"	4-3/4"
SE29023L	23/64"	3-1/2"	23/64"	4-7/8"
SE29024L	3/8"	3-5/8"	3/8"	5"
SE29025L	25/64"	3-3/4"	25/64"	5-1/8"
SE29026L	13/32"	3-7/8"	13/32"	5-1/4"
SE29027L	27/64"	3-15/16"	27/64"	5-3/8"
SE29028L	7/16"	4-1/16"	7/16"	5-1/2"
SE29029L	29/64"	4-3/16"	29/64"	5-5/8"
SE29030L	15/32"	4-5/16"	15/32"	5-3/4"
SE29031L	31/64"	4-3/8"	31/64"	5-7/8"
SE29032L	1/2"	4-1/2"	1/2"	6"

Shank length = OAL minus CEL



Straight Shank Drill Set

## GENERAL PURPOSE DRILL, JOBBER LENGTH, METRIC, STYLE 29M



Style 29M

Made from high-speed steel. Made in USA.

PART #	CED	CEL	SHANK	OAL
SE295005	0.5mm	6mm	0.5mm	22mm
SE29501	1mm	12mm	1mm	34mm
SE295015	1.5mm	18mm	1.5mm	40mm
SE29502	2mm	25mm	2mm	53mm
SE295026	2.5mm	32mm	2.5mm	62.5mm
SE29503	3mm	42mm	3mm	72mm
SE295036	3.5mm	39mm	3.5mm	74mm
SE29504	4mm	43mm	4mm	85mm
SE295045	4.5mm	47mm	4.5mm	80mm
SE29505	5mm	63mm	5mm	95mm
SE295055	5.5mm	57mm	5.5mm	93mm
SE29506	6mm	70mm	6mm	103mm
SE295065	6.5mm	63mm	6.5mm	101mm
SE29507	7mm	69mm	7mm	109mm
SE295075	7.5mm	69mm	7.5mm	109mm
SE29508	8mm	75mm	8mm	117mm
SE295085	8.5mm	75mm	8.5mm	117mm
SE29509	9mm	81mm	9mm	125mm
SE295095	9.5mm	81mm	9.5mm	125mm
SE29510	10mm	87mm	10mm	133mm
SE295105	10.5mm	87mm	10.5mm	133mm
SE29511	11mm	94mm	11mm	142mm
SE295115	11.5mm	94mm	11.5mm	142mm
SE29512	12mm	101mm	12mm	151mm
SE295125	12.5mm	101mm	12.5mm	151mm
SE29513	13mm	101mm	13mm	151mm

Shank length = OAL minus CEL

## GENERAL PURPOSE DRILL SETS, JOBBER LENGTH

Made from high-speed steel. Made in USA.

PART #	DRILLS PER SET	SIZE RANGE	SIZE INCREMENTS
SEJS13M	13	1/16" to 1/4"	by 64ths
SEJS15M	15	1/16" to 1/2"	by 32nds
SEJS21M	21	1/16" to 3/8"	by 64ths
SEJS29M	29	1/16" to 1/2"	by 64ths
SEJS25MET	25	1mm - 13mm	by 0.5mm
SEJS49MET	41	6mm - 10mm	by 0.1mm



## GENERAL PURPOSE DRILL, SHORT LENGTH, STYLE 29S



Style 29S

Made from high-speed steel. Made in USA.

PART #	CED	CEL	SHANK	OAL
SE29101	1/8"	7/8"	1/8"	1-7/8"
SE29102	9/64"	15/16"	9/64"	1-15/16"
SE29103	5/32"	1"	5/32"	2-1/16"
SE29104	11/64"	1-1/16"	11/64"	2-1/8"
SE29105	3/16"	1-1/8"	3/16"	2-3/16"
SE29106	13/64"	1-3/16"	13/64"	2-1/4"
SE29107	7/32"	1-1/4"	7/32"	2-3/8"
SE29108	15/64"	1-5/16"	15/64"	2-7/16"
SE29109	1/4"	1-3/8"	1/4"	2-1/2"
SE29110	17/64"	1-7/16"	17/64"	2-5/8"
SE29111	9/32"	1-1/2"	9/32"	2-11/16"
SE29112	19/64"	1-9/16"	19/64"	2-3/4"
SE29113	5/16"	1-5/8"	5/16"	2-13/16"
SE29114	21/64"	1-11/16"	21/64"	2-15/16"
SE29115	11/32"	1-11/16"	11/32"	3"
SE29116	23/64"	1-3/4"	23/64"	3-1/16"
SE29117	3/8"	1-13/16"	3/8"	3-1/8"
SE29118	25/64"	1-7/8"	25/64"	3-1/4"
SE29119	13/32"	1-15/16"	13/32"	3-5/16"
SE29120	27/64"	2"	27/64"	3-3/8"
SE29121	7/16"	2-1/16"	7/16"	3-7/16"
SE29122	29/64"	2-1/8"	29/64"	3-9/16"
SE29123	15/32"	2-1/8"	15/32"	3-5/8"
SE29124	31/64"	2-3/16"	31/64"	3-11/16"
SE29125	1/2"	2-1/4"	1/2"	3-3/4"
SE29133	5/8"	2-3/4"	5/8"	4-1/4"

Shank length = OAL minus CEL

## GENERAL PURPOSE DRILL, SHORT LENGTH, STYLE 29SLH



Style 29SLH

Made from high-speed steel. Left-hand rotation.

PART #	CED	CEL	SHANK	OAL
SE29101L	1/8"	7/8"	1/8"	1-7/8"
SE29102L	9/64"	15/16"	9/64"	1-15/16"
SE29103L	5/32"	1"	5/32"	2-1/16"
SE29104L	11/64"	1-1/16"	11/64"	2-1/8"
SE29105L	3/16"	1-1/8"	3/16"	2-3/16"
SE29106L	13/64"	1-3/16"	13/64"	2-1/4"

SE29107L	7/32"	1-1/4"	7/32"	2-3/8"
SE29108L	15/64"	1-5/16"	15/64"	2-7/16"
SE29109L	1/4"	1-3/8"	1/4"	2-1/2"
SE29110L	17/64"	1-7/16"	17/64"	2-5/8"
SE29111L	9/32"	1-1/2"	9/32"	2-11/16"
SE29112L	19/64"	1-9/16"	19/64"	2-3/4"
SE29113L	5/16"	1-5/8"	5/16"	2-13/16"
SE29114L	21/64"	1-11/16"	21/64"	2-15/16"
SE29115L	11/32"	1-11/16"	11/32"	3"
SE29116L	23/64"	1-3/4"	23/64"	3-1/16"
SE29117L	3/8"	1-13/16"	3/8"	3-1/8"
SE29118L	25/64"	1-7/8"	25/64"	3-1/4"
SE29119L	13/32"	1-15/16"	13/32"	3-5/16"
SE29120L	27/64"	2"	27/64"	3-3/8"
SE29121L	7/16"	2-1/16"	7/16"	3-7/16"
SE29122L	29/64"	2-1/8"	29/64"	3-9/16"
SE29123L	15/32"	2-1/8"	15/32"	3-5/8"
SE29124L	31/64"	2-3/16"	31/64"	3-11/16"
SE29125L	1/2"	2-1/4"	1/2"	3-3/4"

Shank length = OAL minus CEL

## GENERAL PURPOSE DRILL, LONG LENGTH, STYLE 29T



Style 29T

Made from high-speed steel. Made in U.S.A.

PART #	CED	CEL	SHANK	OAL
SE29201	1/8"	2-3/4"	1/8"	5-1/8"
SE29202	9/64"	3"	9/64"	5-3/8"
SE29203	5/32"	3"	5/32"	5-3/8"
SE29204	11/64"	3-3/8"	11/64"	5-3/4"
SE29205	3/16"	3-3/8"	3/16"	5-3/4"
SE29206	13/64"	3-5/8"	13/64"	6"
SE29207	7/32"	3-5/8"	7/32"	6"
SE29208	15/64"	3-3/4"	15/64"	6-1/8"
SE29209	1/4"	3-3/4"	1/4"	6-1/8"
SE29210	17/64"	3-7/8"	17/64"	6-1/4"
SE29211	9/32"	3-7/8"	9/32"	6-1/4"
SE29212	19/64"	4"	19/64"	6-3/8"
SE29213	5/16"	4"	5/16"	6-3/8"
SE29214	21/64"	4-1/8"	21/64"	6-1/2"
SE29215	11/32"	4-1/8"	11/32"	6-1/2"
SE29216	23/64"	4-1/4"	23/64"	6-3/4"
SE29217	3/8"	4-1/4"	3/8"	6-3/4"
SE29218	25/64"	4-3/8"	25/64"	7"
SE29219	13/32"	4-3/8"	13/32"	7"
SE29220	27/64"	4-5/8"	27/64"	7-1/4"
SE29221	7/16"	4-5/8"	7/16"	7-1/4"
SE29222	29/64"	4-3/4"	29/64"	7-1/2"
SE29223	15/32"	4-3/4"	15/32"	7-1/2"
SE29224	31/64"	4-3/4"	31/64"	7-3/4"
SE29225	1/2"	4-3/4"	1/2"	7-3/4"

Shank length = OAL minus CEL



## GENERAL PURPOSE DRILL, LONG LENGTH, FAST SPIRAL, STYLE 29TF



Style 29TF

Made from high-speed steel. Made in U.S.A.

PART #	CED	CEL	SHANK	OAL
SE29201F	1/8"	2-3/4"	1/8"	5-1/8"
SE29202F	9/64"	3"	9/64"	5-3/8"
SE29203F	5/32"	3"	5/32"	5-3/8"
SE29204F	11/64"	3-3/8"	11/64"	5-3/4"
SE29205F	3/16"	3-3/8"	3/16"	5-3/4"
SE29206F	13/64"	3-5/8"	13/64"	6"
SE29207F	7/32"	3-5/8"	7/32"	6"
SE29208F	15/64"	3-3/4"	15/64"	6-1/8"
SE29209F	1/4"	3-3/4"	1/4"	6-1/8"
SE29210F	17/64"	3-7/8"	17/64"	6-1/4"
SE29211F	9/32"	3-7/8"	9/32"	6-1/4"
SE29212F	19/64"	4"	19/64"	6-3/8"
SE29213F	5/16"	4"	5/16"	6-3/8"
SE29214F	21/64"	4-1/8"	21/64"	6-1/2"
SE29215F	11/32"	4-1/8"	11/32"	6-1/2"
SE29216F	23/64"	4-1/4"	23/64"	6-3/4"
SE29217F	3/8"	4-1/4"	3/8"	6-3/4"
SE29218F	25/64"	4-3/8"	25/64"	7"
SE29219F	13/32"	4-3/8"	13/32"	7"
SE29220F	27/64"	4-5/8"	27/64"	7-1/4"
SE29221F	7/16"	4-5/8"	7/16"	7-1/4"
SE29222F	29/64"	4-3/4"	29/64"	7-1/2"
SE29223F	15/32"	4-3/4"	15/32"	7-1/2"
SE29224F	31/64"	4-3/4"	31/64"	7-3/4"
SE29225F	1/2"	4-3/4"	1/2"	7-3/4"

Shank length = OAL minus CEL

## TAPER-POINT DRILL, JOBBER LENGTH, STYLE 29JTP



Style 29JTP

Made from high-speed steel. Made in U.S.A.  
Designed for use with wood screws.

PART #	CED	CEL	SCREW SIZE	OAL
SE30078	5/64"	1"	2	2"
SE30093	3/32"	1-1/4"	3	2-1/4"
SE30109	7/64"	1-1/2"	4	2-5/8"
SE30125	1/8"	1-5/8"	5	2-3/4"
SE30140	9/64"	1-3/4"	6	2-7/8"
SE30156	5/32"	2"	7	3-1/8"
SE30171	11/64"	2"	8	3-1/4"
SE30187	3/16"	2-5/16"	9	3-1/2"
SE30203	13/64"	2-7/16"	10	3-5/8"
SE30218	7/32"	2-1/2"	12	3-3/4"
SE30234	15/64"	2-5/8"	14	3-7/8"
SE30250	1/4"	2-3/4"	14	4"
SE30265	17/64"	2-7/8"	16	4-1/8"
SE30281	9/32"	2-15/16"	16	4-1/4"
SE30296	19/64"	3-1/16"	18	4-3/8"
SE30312	5/16"	3-3/16"	18-20	4-1/2"
SE30328	21/64"	3-5/16"	20	4-5/8"
SE30343	11/32"	3-7/16"	20	4-3/4"
SE30359	23/64"	3-1/2"	24	4-7/8"
SE30375	3/8"	3-5/8"	24	5"

## TAPER-POINT DRILL, TAPER LENGTH, STYLE 29TTP



Style 29TTP

Made from high-speed steel.  
Designed for use with wood screws.

PART #	CED	CEL	SCREW SIZE	OAL
SE31078	5/64"	2-1/4"	2	3-3/4"
SE31093	3/32"	2-1/4"	3	4-1/4"
SE31109	7/64"	2-1/2"	4	4-5/8"
SE31125	1/8"	2-3/4"	5	5-1/8"
SE31140	9/64"	3"	6	5-3/8"
SE31156	5/32"	3"	7	5-3/8"
SE31171	11/64"	3-3/8"	8	5-3/4"
SE31187	3/16"	3-3/8"	9	5-3/4"
SE31203	13/64"	3-5/8"	10	6"
SE31218	7/32"	3-5/8"	12	6"
SE31234	15/64"	3-3/4"	14	6-1/8"
SE31250	1/4"	3-3/4"	14	6-1/8"
SE31265	17/64"	3-7/8"	16	6-1/4"
SE31281	9/32"	3-7/8"	16	6-1/4"
SE31296	19/64"	4"	18	6-3/8"
SE31312	5/16"	4"	18-20	6-3/8"
SE31328	21/64"	4-1/8"	20	6-1/2"
SE31343	11/32"	4-1/8"	20	6-1/2"
SE31359	23/64"	4-1/4"	24	6-3/4"
SE31375	3/8"	4-1/4"	24	6-3/4"

## DRILL-POINT 1/2" SHANK DRILL, SILVER & DEMING® • High-Speed Steel

Designed for general purpose use.

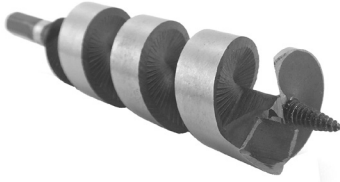


Silver & Deming® Drill

Black-oxide surface treated.  
Features a 118-degree point.

PART #	CED	CEL	SHANK	OAL
SESD516	33/64"	3"	1/2"	6"
SESD531	17/32"	3"	1/2"	6"
SESD547	35/64"	3"	1/2"	6"
SESD563	9/16"	3"	1/2"	6"
SESD578	37/64"	3"	1/2"	6"
SESD594	19/32"	3"	1/2"	6"
SESD609	39/64"	3"	1/2"	6"
SESD625	5/8"	3"	1/2"	6"
SESD641	41/64"	3"	1/2"	6"
SESD656	21/32"	3"	1/2"	6"
SESD672	43/64"	3"	1/2"	6"
SESD688	11/16"	3"	1/2"	6"
SESD703	45/64"	3"	1/2"	6"
SESD719	23/32"	3"	1/2"	6"
SESD734	47/64"	3"	1/2"	6"
SESD750	3/4"	3"	1/2"	6"
SESD766	49/64"	3"	1/2"	6"
SESD781	25/32"	3"	1/2"	6"
SESD797	51/64"	3"	1/2"	6"
SESD813	13/16"	3"	1/2"	6"
SESD828	53/64"	3"	1/2"	6"
SESD844	27/32"	3"	1/2"	6"
SESD859	55/64"	3"	1/2"	6"
SESD875	7/8"	3"	1/2"	6"
SESD891	57/64"	3"	1/2"	6"
SESD906	29/32"	3"	1/2"	6"
SESD922	59/64"	3"	1/2"	6"
SESD938	15/16"	3"	1/2"	6"
SESD953	61/64"	3"	1/2"	6"
SESD969	31/32"	3"	1/2"	6"
SESD984	63/64"	3"	1/2"	6"
SESD1000	1"	3"	1/2"	6"

## AUGER BITS, STYLE NO. 26F



Centerless ground, featuring a solid center design for added strength and a screw point for fast boring in all types of wood. One flute, with single spur and single cutter.

Dual shank: hex portion may be removed from end when round shank is needed.

Carbon tool steel. Made in France.

PART #	CED	CORRESPONDING CHUCK SIZE	OAL
SEA250175	1/4"	3/8" or larger	7-1/2"
SEA250275	5/16"	3/8" or larger	7-1/2"
SEA250375	3/8"	3/8" or larger	7-1/2"
SEA250475	7/16"	3/8" or larger	7-1/2"
SEA250575	1/2"	3/8" or larger	7-1/2"
SEA250675	9/16"	3/8" or larger	7-1/2"
SEA250875	11/16"	3/8" or larger	7-1/2"
SEA250975	3/4"	3/8" or larger	7-7/8"
SEA251075	13/16"	3/8" or larger	7-1/2"
SEA251175	7/8"	3/8" or larger	7-1/2"
SEA251275	15/16"	3/8" or larger	7-1/2"
SEA251375	1"	3/8" or larger	7-1/2"
SEA251475	1-1/8"	1/2" or larger	7-1/2"
SEA251575	1-1/4"	1/2" or larger	7-1/2"
SEA251675	1-3/8"	1/2" or larger	7-1/2"
SEA251775	1-1/2"	1/2" or larger	7-1/2"
SEA250315	3/8"	3/8" or larger	15"
SEA250415	7/16"	3/8" or larger	15"
SEA250515	1/2"	3/8" or larger	15"
SEA250615	9/16"	3/8" or larger	15"
SEA250715	5/8"	1/2" or larger	15"
SEA250815	11/16"	1/2" or larger	15"
SEA250915	3/4"	1/2" or larger	15"
SEA251015	13/16"	1/2" or larger	15"
SEA251115	7/8"	1/2" or larger	15"
SEA251215	15/16"	1/2" or larger	15"
SEA251315	1"	1/2" or larger	15"
SEA251415	1-1/8"	1/2" or larger	15"
SEA251515	1-1/4"	1/2" or larger	15"
SEA251615	1-3/8"	1/2" or larger	15"
SEA251715	1-1/2"	1/2" or larger	15"

## POWER POLE AUGER BIT STYLE 26PP • CARBON TOOL STEEL

Designed for boring creosoted poles and construction timbers.



Style 26PP Auger Bit

Hex shank is 7/16" in diameter; fits all 1/2" 3-jaw chucks.

PART #	CED	CEL	SHANK LENGTH	OAL
SE2646809	9/16"	12"	5"	17"
SE2646810	5/8"	12"	5"	17"
SE2646811	11/16"	12"	5"	17"
SE2646812	3/4"	12"	5"	17"
SE2646813	13/16"	12"	5"	17"
SE2646909	9/16"	18"	5"	23"
SE2646910	5/8"	18"	5"	23"
SE2646911	11/16"	18"	5"	23"
SE2646912	3/4"	18"	5"	23"
SE2646913	13/16"	18"	5"	23"
SE2646914	7/8"	18"	5"	23"
SE2646915	15/16"	18"	5"	23"
SE2647009	9/16"	24"	5"	29"
SE2647010	5/8"	24"	5"	29"
SE2647011	11/16"	24"	5"	29"
SE2647012	3/4"	24"	5"	29"
SE2647013	13/16"	24"	5"	29"
SE2647014	7/8"	24"	5"	29"
SE2647015	15/16"	24"	5"	29"
SE2647016	1"	24"	5"	29"
SE2647017	1-1/16"	24"	5"	29"

## DRILL-POINT DRILL, STYLE 32HS

Great for plastics!



Style 32HS

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE32001HS	1/8"	4"	1/2"	6"
SE32003HS	3/16"	4"	1/2"	6"
SE32004HS	7/32"	4"	1/2"	6"
SE32005HS	1/4"	4"	1/2"	6"
SE32006HS	9/32"	4"	1/2"	6"
SE32007HS	5/16"	4"	1/2"	6"
SE32008HS	11/32"	4"	1/2"	6"
SE32009HS	3/8"	4"	1/2"	6"
SE32011HS	7/16"	4"	1/2"	6"
SE32012HS	1/2"	4"	1/2"	6"

## SELF CENTERING DRILL GUIDES (Vix® Bits)

Designed to drill centered screw holes for cabinet and builders hardware.



SNAPPY  
Hex Shaft  
Self-Centering  
Drill Guides



VIX  
Self-Centering  
Drill Guides

PART #	CED	Screw Size	SHANK	OAL
SE56401	5/64"	3 & 4	1/4"	3"
SE56401HX	5/64"	3 & 4	1/4"HEX	4"
SE76401	7/64"	5 & 6	1/4"	3-1/4"
SE76401HX	7/64"	5 & 6	1/4"HEX	4"
SE96401	9/64"	8, 9 & 10	1/4"	3-1/2"
SE96401HX	9/64"	8, 9 & 10	1/4"HEX	4"
SE116401	11/64"	12	3/8"	5"
SE116401HX	11/64"	12	1/4"HEX	4-1/2"
SE136401	13/64"	14	3/8"	5"
SE136401HX	13/64"	14	1/4"HEX	4-1/2"

## REPLACEMENT DRILLS (VIX® BITS)

PART #	CED	REPLACEMENT FOR STOCK NUMBERS	SHANK	OAL
SE56402	5/64"	SE56401, SE56401HX	5/64"	2-1/2"
SE56402	5/64"	SE56402-318	5/16"	3-1/8"
SE76402	7/64"	SE76401, SE76401HX	7/64"	2-7/8"
SE96402	9/64"	SE96401, SE-96401HX	9/64"	3-1/8"
SE116402	11/64"	SE116401, SE-116401HX	11/64"	4-1/8"
SE136402	13/64"	SE136401, SE-136401HX	13/64"	4-1/8"

## REPLACEMENT SPRINGS (VIX® BITS)

PART #	SPRING SIZE	REPLACEMENT FOR STOCK NUMBERS
SE56403	5/64"	SE56401, SE56401HX
SE76403	7/64"	SE76401, SE76401HX
SE96403	9/64"	SE96401, SE96401HX
SE116403	11/64"	SE116401, SE116401HX
SE136403	13/64"	SE136401, SE136401HX

## REPLACEMENT GUIDES (VIX® BITS)

PART #	GUIDE SIZE	REPLACEMENT FOR STOCK NUMBERS
SE56404	5/64"	SE56401, SE56401HX
SE76404	7/64"	SE76401, SE76401HX
SE96404	9/64"	SE96401, SE96401HX
SE116404	11/64"	SE116401, SE116401HX
SE136404	13/64"	SE136401, SE136401HX

## DEPTH COLLARS & SETS

Designed for use with drills and counterbores.



Features collars with set screws which lock into the drill flute or bit surface. Surface finish either zinc-plated, or black oxide to prevent rusting.  
**Made in USA.**

PART #	HOLE DIA	OUTSIDE DIA	WIDTH	SET SCREW SIZE
SESC-18	1/8"	3/8"	1/4"	#6-32
SESC-316	3/16"	7/16"	1/4"	#10-32
SESC-14	1/4"	1/2"	5/16"	#10-32
SESC-516	5/16"	5/8"	5/16"	#10-32
SESC-38	3/8"	3/4"	3/8"	1/4"-20
SESC-716	7/16"	7/8"	7/16"	1/4"-20
SESC-12	1/2"	1"	7/16"	1/4"-20
SESC-916	9/16"	1"	7/16"	1/4"-20
SESC-58	5/8"	1-1/8"	1/2"	1/4"-20
SESC-34	3/4"	1-1/4"	9/16"	5/16"-18
SESC-78	7/8"	1-1/2"	9/16"	5/16"-18
SESC-1	1"	1-1/2"	9/16"	5/16"-18
SESC-7Set	Set of 7 Collars 1/8", 3/16", 1/4", 5/16", 3/8", 7/16" & 1/2"			
SESC-4Set	Set of 4 Collars 5/8", 3/4", 7/8" & 1"			

## CHUCK, STYLE 1

For all types of machines where a 7/16"-14 threaded shank is needed.



Chuck, Style 1

**Threaded shank 7/16"-14**  
**Drill is held in place with a set screw.**

PART #	HOLE DIA	OUTER DIA	OAL	ROTATIONAL DIRECTION
SE11125R	1/8"	5/8"	1-1/2"	right
SE11156R	5/32"	5/8"	1-1/2"	right
SE11187L	3/16"	5/8"	1-1/2"	left
SE11187R	3/16"	5/8"	1-1/2"	right
SE11218L	7/32"	5/8"	1-1/2"	left
SE11218R	7/32"	5/8"	1-1/2"	right
SE11250L	1/4"	5/8"	1-1/2"	left
SE11250R	1/4"	5/8"	1-1/2"	right
SE11281L	9/32"	5/8"	1-1/2"	left
SE11281R	9/32"	5/8"	1-1/2"	right
SE11312L	5/16"	7/8"	2-3/8"	left
SE11312R	5/16"	7/8"	2-3/8"	right
SE11375L	3/8"	7/8"	2-3/8"	left
SE11375R	3/8"	7/8"	2-3/8"	right
SE11393L	10mm	7/8"	2-3/8"	left
SE11393R	10mm	7/8"	2-3/8"	right
SE11437L	7/16"	7/8"	2-3/8"	left
SE11437R	7/16"	7/8"	2-3/8"	right
SE11500L	1/2"	7/8"	2-3/8"	left
SE11500R	1/2"	7/8"	2-3/8"	right

## FORSTNER® BITS



PART #	CED	SHANK	SHANK LENGTH	OAL
SE55001	1/4"	5/16"	4-3/4"	3-1/2"
SE55002	5/16"	5/16"	4-3/4"	3-1/2"
SE55003	3/8"	3/8"	4-3/4"	3-1/2"
SE55004	7/16"	1/2"	4-3/4"	5"
SE55005	1/2"	1/2"	4-3/4"	5"
SE55006	9/16"	1/2"	4-3/4"	5"
SE55007	5/8"	1/2"	4-3/4"	5"
SE55008	11/16"	1/2"	4-3/4"	5"
SE55009	3/4"	1/2"	4-11/16"	5"
SE55010	13/16"	1/2"	4-11/16"	5"
SE55011	7/8"	1/2"	4-9/16"	5"
SE55012	15/16"	1/2"	4-9/16"	3-1/2"
SE55013	1"	1/2"	4-9/16"	5"
SE55014	1-1/16"	1/2"	4-9/16"	5"
SE55015	1-1/8"	1/2"	4-7/16"	5"
SE55016	1-3/16"	1/2"	4-7/16"	5"
SE55017	1-1/4"	1/2"	4-1/2"	5"
SE55018	1-5/16"	1/2"	4-1/2"	5"
SE55019	1-3/8"	1/2"	4-1/2"	5"
SE55020	1-7/16"	1/2"	6"	6-3/4"
SE55021	1-1/2"	1/2"	6"	6-3/4"
SE55022	1-5/8"	1/2"	6-1/8"	6-3/4"
SE55023	1-3/4"	1/2"	6-1/8"	6-3/4"
SE55024	1-7/8"	1/2"	6-1/8"	6-3/4"
SE55025	2"	1/2"	6-1/8"	6-3/4"
SE55026	2-1/8"	1/2"	6-1/8"	6-3/4"
SE55027	2-1/4"	1/2"	5-7/8"	6-3/4"
SE55028	2-3/8"	1/2"	5-7/8"	6-3/4"
SE55029	2-1/2"	1/2"	5-7/8"	6-3/4"
SE55030	2-5/8"	1/2"	5-7/8"	6-3/4"
SE55031	2-3/4"	1/2"	5-7/8"	6-3/4"
SE55032	2-7/8"	1/2"	5-7/8"	6-3/4"
SE55033	3"	1/2"	5-7/8"	6-3/4"

*Carbon steel*

## SPADE BITS



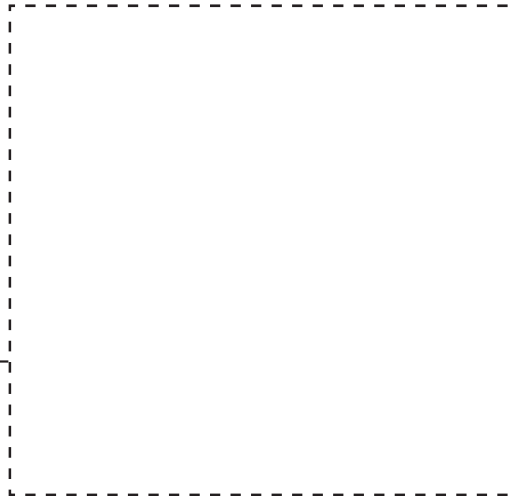
PART #	CED	OAL
SE94620	5/16"	6"
SE94624	3/8"	6"
SE94628	7/16"	6"
SE94632	1/2"	6"
SE94636	9/16"	6"
SE94640	5/8"	6"
SE94644	11/16"	6"
SE94648	3/4"	6"
SE94652	13/16"	6"
SE94656	7/8"	6"
SE94660	15/16"	6"
SE94664	1"	6"
SE94708	1-1/8"	6"
SE94716	1-1/4"	6"
SE94724	1-3/8"	6"
SE94732	1-1/2"	6"

## CUSTOM DRILLS

Special sizes are not subject to return or cancellation, and are considered complete with 20% over or under quantity ordered.

*The following information is needed to quote special drills:*

1. Quantity \_\_\_\_\_
2. Cutting Diameter \_\_\_\_\_
3. Twist or Cutting Length \_\_\_\_\_
- 4 Shank Diameter & Length \_\_\_\_\_
5. Overall Length \_\_\_\_\_
6. Material (Carbide, High-Speed Steel or Carbon Steel) \_\_\_\_\_
7. Point Style (Brad, V-Point or other) \_\_\_\_\_
8. Rotation \_\_\_\_\_



**FAX: 866-945-9433**



# INSERT BITS

## 2 FLUTE FLUSH TRIM INSERT BITS



Insert Flush Trim Bit

PART #	CED	CEL	SHANK	OAL	Inserts
SEIFT-71214*	3/4"	12mm	1/4"	2-1/4"	SI-121215
SEIFT-71212*	3/4"	12mm	1/2"	2-1/2"	SI-121215
SEIFT-73012**	3/4"	30mm	1/2"	3-3/16"	SI-301215
SEIFT-74012**	3/4"	40mm	1/2"	3-5/8"	SI-401215
SEIFT-75012**	3/4"	50mm	1/2"	3-15/16"	SI-501217

\*Use SI4-Screw and SBE119 Bearing

\*\*Use SI-Screw and SBE140

## 1 FLUTE INSERT STRAIGHT BITS



Insert 1 Flute Straight Bit

PART #	CED	CEL	SHANK	OAL	Inserts
SEIS1-73012	3/4"	30mm	1/2"	3-3/8"	SI-301215P
SEIS1-74012	3/4"	40mm	1/2"	3-3/8"	SI-3951215

Use SI35-Screw

## 2 FLUTE INSERT STRAIGHT BITS



PART #	CED	CEL	SHANK	OAL	INSERT
SEINS-34	3/4"	30mm	3/4"	3"	SI-2951215
SEINS-34-12	3/4"	30mm	1/2"	3"	SI-301215
SEIS2-740	3/4"	40mm	1/2"	3-5/16"	SI-401215
SEIS2-750	3/4"	50mm	1/2"	3-11/16"	SI-501217
SEINS-34-58	3/4"	30mm	5/8"	3"	SI-2951215
SEINS-34-40	3/4"	40mm	3/4"	4"	SI-3951215
SEINS-34-50	3/4"	50mm	3/4"	4-1/4"	SI-4951215
SEINS-1-30	1"	30mm	1/2"	3"	SI-2951215

Use SI-Screw

Four Sided Inserts for End Cutting

## 2 FLUTE INSERT TEMPLATE BITS



SEIT750-30

PART #	CED	CEL	OAL	SHANK	Inserts
SEIT750-30*	3/4"	30mm	3"	1/2"	SI-2951215
SEIT750-40*	3/4"	40mm	3-5/16"	1/2"	SI-3951215
SEIT750-50*	3/4"	50mm	3-1/16"	1/2"	SI-501217
SEIT1125-30**	1-1/8"	30mm	3"	1/2"	SI-301215P
SEIT1125-40**	1-1/8"	40mm	3-5/16"	1/2"	SI-3951215
SEIT1125-50**	1-1/8"	50mm	3-11/16"	1/2"	SI-501217

Use SI-Screw

Four Sided Inserts for End Cutting

\* Use SBE155

\*\* Use SBE150

## 1 FLUTE V-GROOVE BIT



SEIV91-12

PART #	CED	CEL	ANGLE	SHANK	OAL	Inserts
SEIV90-12	25mm	15.5mm	90°	1/2"	2-5/8"	SIV151215
SEIV91-12	18mm	12mm	91°	1/2"	2-5/16"	SI-121215

Use SI-Screw

## 22 DEGREE BEVEL BITS • 2 FLUTE



PART #	CED	CEL	ANGLE	SHANK	OAL	Inserts
SEIBT22-14	3/4"	12mm	22°	1/4"	2-1/8"	SI-121215
SEIBT22-12	3/4"	12mm	22°	1/2"	2-1/4"	SI-121215

Use SI4-Screw  
Use SBE119

## 45 DEGREE BEVEL BITS • 2 FLUTE



PART #	SMALL		ANGLE	SHANK	OAL	Inserts
	CED	CEL				
SEIBT45-14	3/4"	12mm	45°	1/4"	2-1/8"	SI-121215
SEIBT45-12	3/4"	12mm	45°	1/2"	2-1/4"	SI-121215

Use SI4-Screw  
Use SBE119

## INSERT COMPRESSION BITS • 2+2



PART #	CED	CEL	SHANK	OAL	Inserts
SEINS22-40	1-1/4"	40mm	3/4"	3-3/4"	SI-301215, SI-121215
SEINS22-50	1-1/4"	50mm	3/4"	4-1/2"	SI-401215, SI-121215

Use SICS-Screw

## 45 DEGREE INSERT V-GROOVE BIT • 1 FLUTE



PART #	CED	Cut Height	SHANK
SECS143IR	50mm	1"	3/4"

Replacement Insert: Part# SECS143IR insert  
Replacement Screw: SICS-SCREW

## INSERT SPOILBOARD SURFACING CUTTERS - STRAIGHT (for MDF and Particleboard)

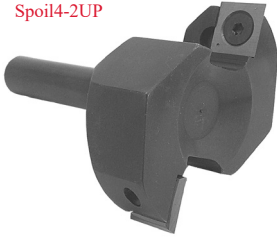
Spoil4-2



PART #	CED	CEL	SHANK	# of Wings
SPOIL178-2	1-7/8"	1/2"	1/2"	2
SPOIL25-2	2-1/2"	1/2"	1/2"	2
SPOIL4-2	4"	1/2"	3/4"	2
SPOIL4-3	4"	1/2"	3/4"	3

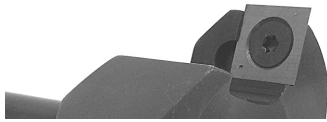
## INSERT SPOILBOARD SURFACING CUTTERS - UP-SHEAR (for Balsa Core Material)

Spoil4-2UP



PART #	CED	CEL	SHANK	# of Wings
SPOIL25-2UP	2-1/2"	1/2"	1/2"	2
SPOIL4-2UP	4"	1/2"	3/4"	2
SPOIL4-3UP	4"	1/2"	3/4"	3

## INSERT SPOILBOARD SURFACING CUTTERS - ACCESSORIES



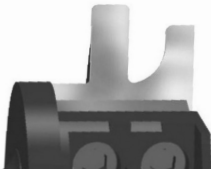
PART #	Description
SPOIL-Insert	(Replacement insert for spoilboard cutter 10 pc pack 14x14x2)
SPOIL-Screw	(Replacement screw for spoilboard cutter)
SPOIL-Wrench	(Wrench for spoilboard cutter insert)

## 2 WING COPE(STILE) & STICK(RAIL) BITS - FACE DOWN - INSERTS



PART #	DESCRIPTION	COMMENTS	PKG QTY
SE-ICSOFD	Ogee Insert-Cope (Stile)	Face Down	Sold each.
SE-IRSOFD	Ogee Insert-Stick (Rail)	Face Down	Sold each.
SE-ICSBFD	Bead Insert-Cope (Stile)	Face Down	Sold each.
SE-IRSBFD	Bead Insert-Stick (Rail)	Face Down	Sold each.
SE-ICSRFD	Round Insert-Cope (Stile)	Face Down	Sold each.
SE-IRSRFD	Round Insert-Stick (Rail)	Face Down	Sold each.

## 2 WING COPE (STILE) & STICK (RAIL) BITS - FACE UP - INSERTS



PART #	DESCRIPTION	COMMENTS	PKG QTY
SE-ICSO	Ogee Insert-Cope (Stile)	Face Up	Sold each.
SE-IRSO	Ogee Insert-Stick (Rail)	Face Up	Sold each.
SE-ICSB	Bead Insert-Cope (Stile)	Face Up	Sold each.
SE-IRSB	Bead Insert-Stick (Rail)	Face Up	Sold each.
SE-ICSR	Round Insert-Cope (Stile)	Face Up	Sold each.
SE-IRSR	Round Insert-Stick (Rail)	Face Up	Sold each.

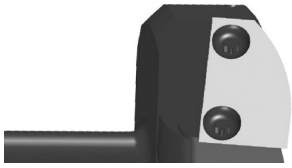
## 2 WING RAISED PANEL BITS



PART #	DESCRIPTION	SHANK	COMMENTS
SEIBRP-34	Raised Panel Body	3/4"	Face Up

*3/4" Shank • Face Up*

## 2 WING RAISED PANEL BITS - INSERTS



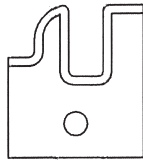
PART #	DESCRIPTION (SOLID CARBIDE)	COMMENTS	PKG QTY
SE-IRPC	Round Raised Panel Insert	Face Up	Sold each.
SE-IRPS	Straight Raised Panel Insert	Face Up	Sold each.
SE-IRPO	Ogee Raised Panel Insert	Face Up	Sold each.

*The same body fits all three styles.*

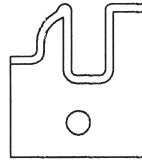
## INSERT 3 WING SHAPER - COPE (STILE)



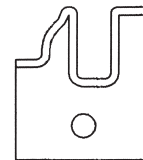
PART #	Large Diameter	BORE	DESCRIPTION
SE-BCS	4"	1-1/4"	Insert Cope (Stile) Body
SE-ICSR			Round Cope (Stile) Profile Insert
SE-ICSB			Bead Cope (Stile) Profile Insert
SE-ICSO			Ogee Cope (Stile) Profile Insert



SE-ICSR



SE-ICSB



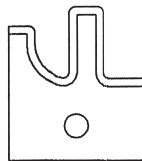
SE-ICSO

*Right-Hand Rotation - Face Down  
Each body comes with one set of knives*

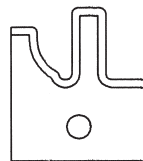
## INSERT 3 WING SHAPER - STICK (RAIL)



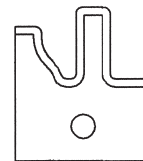
PART #	Large Diameter	BORE	DESCRIPTION
SE-BRS	4"	1-1/4"	Insert Rail (Stick) Body
SE-IRSR			Round Rail (Stick) Insert
SE-IRSB			Bead Rail (Stick) Insert
SE-IRSO			Ogee Rail (Stick) Insert



SE-IRSR



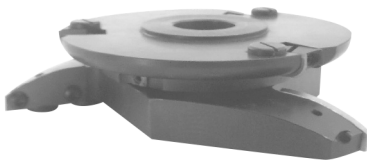
SE-IRSB



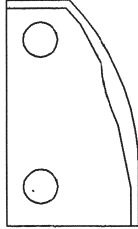
SE-IRSO

*Right-Hand Rotation - Face Down  
Each body comes with one set of knives*

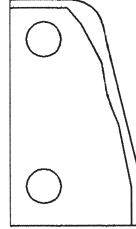
## INSERT 3 WING RAISED PANEL CUTTERS



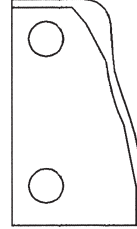
PART #	Large Diameter	BORE	DESCRIPTION
SE-BRP	7-1/2"	1-1/4"	Insert Raised Panel Body
SE-IRPC			Round Raised Panel Insert
SE-IRPS			Straight Raised Panel Insert
SE-IRPO			Ogee Raised Panel Insert



SE-IRPC



SE-IRPS



SE-IRPO

*Face Down - Each body comes with one set of knives  
Use SI-Screw - 10-32X9*

## INSERT 3 WING BACK PANEL CUTTER



PART #	Large Diameter	BORE	DESCRIPTION
SE-BBP	5-3/4"	1-1/4"	Insert Back Panel Body
SE-IBP			Back Panel Insert Old Style
SE-IBP-Round			Round Style-New

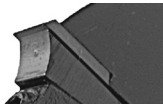


*Each body comes with one set of knives*

## INSERT 3 WING RAISED PANEL TRIM CUTTER



PART #	Large Diameter	BORE	DESCRIPTION
SE-BRPT	4"	1-1/4"	Insert Raised Panel Trim Cutter
SE-IRPT			Trim Cutter Insert (7.5 x 12)



*Used to trim end panels  
Each body comes with one set of knives*

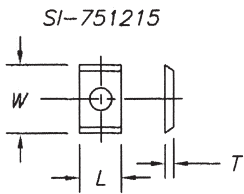
## ACCESSORIES FOR 3 WING CUTTER INSERTS

PART #	DESCRIPTION
SE750TBU	3/4" T Type Bushing
SE1000TBU	1" T Type Bushing
RB41250	Rub Bearing 4" OD x 1-1/4" ID x 1/2" Thick

**Note: Insert tooling requires your machine, spindle and bushings to be in good condition with minimum runout.**

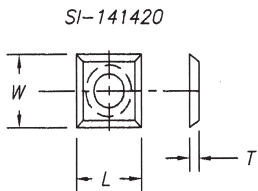
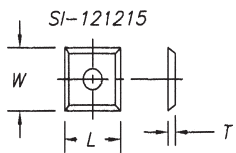
# SOLID CARBIDE INSERT REPLACEMENTS AND ACCESSORIES

## STANDARD REVERSIBLE INSERT KNIVES - 2 SIDED 1 HOLE



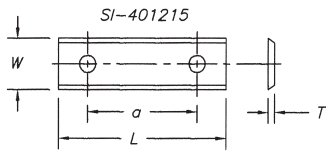
PART #	DESCRIPTION (L x W x T)
SI-751215	7.5 x 12 x 1.5
SI-861215	8.6 x 12 x 1.5
SI-901215	9.0 x 12 x 1.5
SI-961215	9.6 x 12 x 1.5
SI-131215	13 x 12 x 1.5
SI-151215	15 x 12 x 1.5
SI-181215	18 x 12 x 1.5
SI-201215	20 x 12 x 1.5
SI-251215	25 x 12 x 1.5

## STANDARD REVERSIBLE INSERT KNIVES - 4 SIDED 1 HOLE



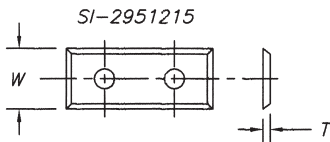
PART #	DESCRIPTION (L x W x T)
SI-10510515	10.5 x 10.5 x 1.5
SI-10510515CS	10.5 x 10.5 x 1.5 C Sink hole
SI-121215	12 x 12 x 1.5
SI-131325	13 x 13 x 2.5
SI-1361362	13.6 x 13.6 x 2.0
SI-141412	14 x 14 x 1.2
SI-141412 Holz	14 x 14 x 1.2 Holz-Her Style Insert
SI-141420	14 x 14 x 2.0
SI-141420-T10	14 x 14 x 2.0 T10mg
SI-141420-SP	14 x 14 x 2.0 T04F Grade
SI-141420CR	14 x 14 x 2.0 w/Corner Radius
SI-14314325	14.3 x 14.3 x 2.5
SI-14614625	14.6 x 14.6 x 2.5
SI-14614625CR	14.6 x 14.6 x 2.5 w/Corner Radius
SI-151525	15 x 15 x 2.5 w/115mm Radius
SI-151525- 30deg	15 x 15 x 2.5 w/150mm Radius
SI-151525-R50	15 x 15 x 2.5 w/50mm Radius
SI-151525-SQ	15 x 15 x 2.5 w/Square Corners
SI-151525-SQ-SP	15 x 15 x 2.5 w/Square Corners T08CR
SI-151525 Byrd	15 x 15 x 2.5 w/100mm Radius
SI-171215	17 x 12 x 1.5
SI-1717203	17 x 17 x 2.0 w/3mm Hole
SI-1717204	17 x 17 x 2.0 w/4mm Hole
SI-1957015	19.5 x 7 x 1.5
SI-1957515	19.5 x 7.5 x 1.5
SI-1958015	19.5 x 8.0 x 1.5
SI-1959015	19.5 x 9.0 x 1.5
SI-1951015	19.5 x 10 x 1.5
SI-1951115	19.5 x 11 x 1.5
SI-1951215	19.5 x 12 x 1.5
SI-191920	19 x 19 x 2.0 w/ 4mm Hole
SI-212155	21 x 21 x 5.5 x 40°
SI-258015	25 x 8.0 x 1.5

## STANDARD REVERSIBLE INSERT KNIVES - 2 SIDED 2 HOLES



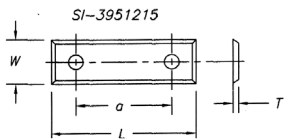
PART #	DESCRIPTION (L x W x T)
SI-251215-2	25 x 12 x 1.5 - 14 CTC
SI-301215	30 x 12 x 1.5 - 14 CTC
SI-301215CA	30 x 12 x 1.5 - 14 CTC 4 Corner Angles
SI-301215-16	30 x 12 x 1.5 - 16 CTC
SI-301215SP	30 x 12 x 1.5 T03SMG Grade
SI-301225	30 x 12 x 2.5 - 14 CTC
SI-351215	35 x 12 x 1.5 - 26 CTC
SI-401215	40 x 12 x 1.5 - 26 CTC
SI-401215CA	40 x 12 x 1.5 - 26 CTC 4 Corner Angles
SI-4451515	44.5 x 15 x 1.5
SI-501215	50 x 12 x 1.5 - 26 CTC
SI-501215CA	50 x 12 x 1.5 - 26 CTC 4 Corner Angles
SI-601215	60 x 12 x 1.5 - 26 CTC
SI-801322	80 x 13 x 2.2 - 60 CTC
SI-1001322	100 x 13 x 2.2 - 60 CTC
SI-1201322	120 x 13 x 2.2 - 60 CTC

## STANDARD REVERSIBLE INSERT KNIVES - 4 SIDED 2 HOLES (14 CTC) PLUNGE



PART #	DESCRIPTION (L x W x T)
SI-287015	28 x 7.0 x 1.5 (3 Sided)
SI-2957015	29.5 x 7 x 1.5
SI-2957515	29.5 x 7.5 x 1.5
SI-2958015	29.5 x 8.0 x 1.5
SI-2959015	29.5 x 9.0 x 1.5
SI-2959015SP	29.5 x 9.0 x 1.5 T03SMG Grade
SI-2951015	29.5 x 10 x 1.5
SI-2951115	29.5 x 11 x 1.5
SI-2951215SP	29.5 x 12 x 1.5 T03SMG Grade
SI-301215P	30 x 12 x 1.5
SI-301215-TL15	30 x 12 x 1.5 TL15 Grade

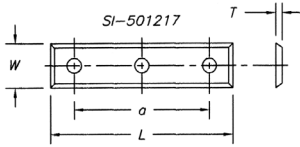
## STANDARD REVERSIBLE INSERT KNIVES - 4 SIDED 2 HOLES (26 CTC) PLUNGE



PART #	DESCRIPTION (L x W x T)
SI-3951215	39.5 x 12 x 1.5
SI-4958015	49.5 x 8 x 1.5
SI-4959015	49.5 x 9 x 1.5
SI-4959015-SP	49.5 x 9 x 1.5 T03SMG Grade
SI-4951015	49.5 x 10 x 1.5
SI-4951115	49.5 x 11 x 1.5
SI-4951215	49.5 x 12 x 1.5 T04F Grade
SI-4951215-SP	49.5 x 12 x 1.5 T03SMG
SI-5951215	59.5 x 12 x 1.5



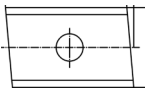
## STANDARD REVERSIBLE INSERT KNIVES - 4 SIDED 3 HOLES (37 CTC)



PART #	DESCRIPTION (L x W x T)
SI-501017	50 x 10 x 1.7
SI-501217	50 x 12 x 1.7

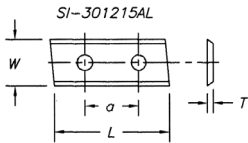
## INSERT KNIVES - END ANGLE 1 HOLE

SI-201215AR



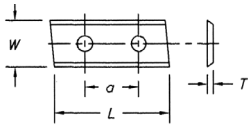
PART #	DESCRIPTION (L x W x T)
SI-201215AL	20 x 12 x 1.5 Angle Left
SI-201215AR	20 x 12 x 1.5 Angle Right

## INSERT KNIVES - END ANGLE 2 HOLES (14 CTC)



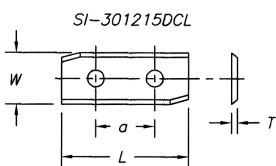
PART #	DESCRIPTION (L x W x T)
SI-301215AL	30 x 12 x 1.5 Angle Left
SI-301215AR	30 x 12 x 1.5 Angle Right

## INSERT KNIVES - END ANGLE 2 HOLES (26 CTC)



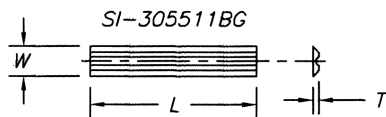
PART #	DESCRIPTION (L x W x T)
SI-401215AL	40 x 12 x 1.5 Angle Left
SI-401215AR	40 x 12 x 1.5 Angle Right
SI-501215AL	50 x 12 x 1.5 Angle Left
SI-501215AR	50 x 12 x 1.5 Angle Right

## INSERT KNIVES - DOUBLE ANGLE 2 HOLES



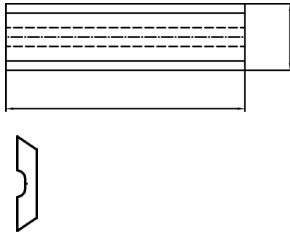
PART #	DESCRIPTION (L x W x T)
SI-301215DCL	30 x 12 x 1.5 RB-TL - 14 CTC
SI-301215DCR	30 x 12 x 1.5 LB-TR - 14 CTC
SI-501215DCL	50 x 12 x 1.5 LB-TR - 26 CTC
SI-501215DCR	50 x 12 x 1.5 RB-TL - 26 CTC

## INSERT KNIVES - 2 SIDED BACK GROOVE



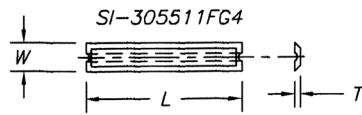
PART #	DESCRIPTION (L x W x T)
SI-125511BG	12 x 5.5 x 1.1 Back Groove
SI-205511BG	20 x 5.5 x 1.1 Back Groove
SI-305511BG	30 x 5.5 x 1.1 Back Groove
SI-305511BG- SP	30 x 5.5 x 1.1 Back Groove T03SMG
SI-405511BG	40 x 5.5 x 1.1 Back Groove
SI-505511BG	50 x 5.5 x 1.1 Back Groove
SI-505511BG-T03	50 x 5.5 x 1.1 Back Groove T03SMG

## INSERT KNIVES - 2 SIDED FACE GROOVE



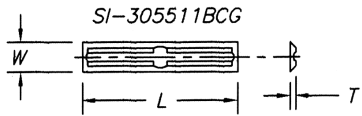
PART #	DESCRIPTION (L x W x T)
SI-978152	9.7 x 8 x 1.5 Face Groove
SI-117815	11.7 x 8 x 1.5 Face Groove
SI-1478152	14.7 x 8 x 1.5 Face Groove
SI-125511FG	12 x 5.5 x 1.1 Face Groove
SI-197815	19.7 x 8 x 1.5 Face Groove
SI-205511FG	20 x 5.5 x 1.1 Face Groove
SI-305511FG	30 x 5.5 x 1.1 Face Groove
SI-405511FG	40 x 5.5 x 1.1 Face Groove
SI-505511FG	50 x 5.5 x 1.1 Face Groove
SI-508015FG	50 x 8 x 1.5 Face Groove
SI-608015FG	60 x 8 x 1.5 Face Groove

## INSERT KNIVES - 4 SIDED FACE GROOVE



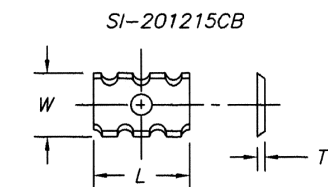
PART #	DESCRIPTION (L x W x T)
SI-205511FG4	20 x 5.5 x 1.1 Face Groove
SI-255511FG4	25 x 5.5 x 1.1 Face Groove
SI-305511FG4	30 x 5.5 x 1.1 Face Groove
SI-355511FG4	35 x 5.5 x 1.1 Face Groove
SI-405511FG4	40 x 5.5 x 1.1 Face Groove
SI-505511FG4	50 x 5.5 x 1.1 Face Groove

## INSERT KNIVES - 4 SIDED BACK & CROSS GROOVE



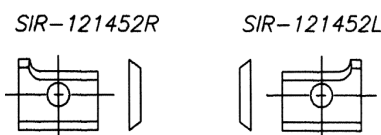
PART #	DESCRIPTION (L x W x T)
SI-205511BCG	20 x 5.5 x 1.1
SI-305511BCG	30 x 5.5 x 1.1
SI-405511BCG	40 x 5.5 x 1.1
SI-505511BCG	50 x 5.5 x 1.1

## INSERT KNIVES - Chipbreaker Knives



PART #	DESCRIPTION (L x W x T)
SI-151520CB	15 x 15 x 2.0 - 4 Sided
SI-201215CB	20 x 12 x 1.5 - 2 Sided
SI-301215CB	30 x 12 x 1.5 - 2 Sided
SI-501215CB	50 x 12 x 1.5 - 2 Sided

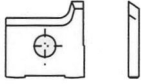
## INSERT KNIVES - Radius Knives



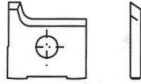
PART #	DESCRIPTION (L x W x T)
SIR-121452L-2	12 x 14.5 x 2 LH 2mm Radius
SIR-121452R-2	12 x 14.5 x 2 RH 2mm Radius
SIR-121452L-25	12 x 14.5 x 2 LH 2.5mm Radius
SIR-121452R-25	12 x 14.5 x 2 RH 2.5mm Radius
SIR-121452L-3	12 x 14.5 x 2 LH 3mm Radius
SIR-121452R-3	12 x 14.5 x 2 RH 3mm Radius

## INSERT KNIVES - Radius Knives

SIR-151452R

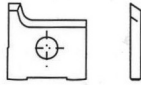
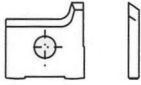


SIR-151452L



PART #	DESCRIPTION (L x W x T)
SIR-151452L-2	15 x 14.5 x 2 LH 2mm Radius
SIR-151452R-2	15 x 14.5 x 2 RH 2mm Radius
SIR-151452L-25	15 x 14.5 x 2 LH 2.5mm Radius
SIR-151452R-25	15 x 14.5 x 2 RH 2.5mm Radius
SIR-151452L-3	15 x 14.5 x 2 LH 3mm Radius
SIR-151452R-3	15 x 14.5 x 2 RH 3mm Radius

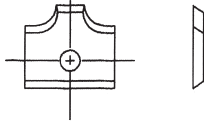
## INSERT KNIVES - Radius Knives



PART #	DESCRIPTION (L x W x T)
SIR-1961522L-2	19.6 x 15.2 x 2 LH 2mm Radius
SIR-1961522R-2	19.6 x 15.2 x 2 RH 2mm Radius
SIR-19615223L-3	19.6 x 15.2 x 2 LH 3mm Radius
SIR-19615223R-3	19.6 x 15.2 x 2 RH 3mm Radius

## INSERT KNIVES - DOUBLE RADIUS KNIVES (3MM HOLE)

SIDR-161752-4



PART #	DESCRIPTION (L x W x T)
SIDR-161752-2	16 x 17.5 x 2.0 R-2
SIDR-161752-3	16 x 17.5 x 2.0 R-3
SIDR-161752-4	16 x 17.5 x 2.0 R-4
SIDR-161752-5	16 x 17.5 x 2.0 R-5

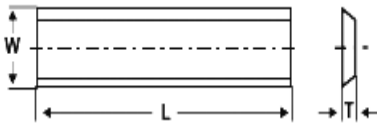
## INSERT KNIVES - RADIUS PROFILE KNIVES

SIRP-12712732-2



PART #	DESCRIPTION (L x W x T)
SIRP-12712732-2	12.7 x 12.7 x 3.2 R-2
SIRP-12712732-3	12.7 x 12.7 x 3.2 R-3

## INSERT KNIVES - LEITZ SYSTEMS® FACE GROOVE



PART #	DESCRIPTION (L x W x T)
SILS-778015	7.7 x 8.0 x 1.5
SILS-978015	9.7 x 8.0 x 1.5
SILS-1178015	11.7 x 8.0 x 1.5
SILS-1478018	14.7 x 8.0 x 1.5
SILS-1978015	19.7 x 8.0 x 1.5
SILS-2478015	24.7 x 8.0 x 1.5
SILS-308015	30 x 8.0 x 1.5
SILS-358015	35 x 8.0 x 1.5
SILS-408015	40 x 8.0 x 1.5
SILS-458015	45 x 8.0 x 1.5
SILS-508015	50 x 8.0 x 1.5
SILS-608015	60 x 8.0 x 1.5
SILS-708015	70 x 8.0 x 1.5
SILS-808015	80 x 8.0 x 1.5
SILS-1008015	100 x 8.0 x 1.5
SILS-1208015	120 x 8.0 x 1.5

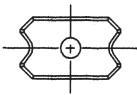
## INSERT KNIVES - PORTABLE PLANERS BACK GROOVE



PART #	Description
SIPP-565511	56 x 5.5 x 1.1 Adler®
SIPP-605511	60 x 5.5 x 1.1 Wegoma®
SIPP-755511	75.5 x 5.5 x 1.1 AEG®, Bosch®, Festo®, Haffner®, Kress®, Mafell®, Metabo®, Scheer®, Skill®, Holz-Her®
SIPP-7575512	75.7 x 5.5 x 1.2 Black & Decker®
SIPP-785511	78 x 5.5 x 1.1 Virutex®
SIPP-8055912	80.5 x 5.9 x 1.2 ELU®
SIPP-8055511	80.5 x 5.5 x 1.1 ELU®
SIPP-825511	82 x 5.5 x 1.1 AEG®, Black & Decker®, Bosch®, ALU®, Fein®, Felisatti®, Haffner®, Hitachi®, Holz-Her®, Mafell®, Makita®, Metabo®, Peugeot®, Ryobi®, Skil®
SIPP-8275511	82.7 x 5.5 x 1.1 Black & Decker®
SIPP-925511	92 x 5.5 x 1.1 AEG®, Hitachi®, Ryobi®
SIPP-1025511	102 x 5.5 x 1.1 AEG®

## INSERT KNIVES - SCRAPER KNIVES 6 DEGREE

SIS-2012202



PART #	DESCRIPTION (L x W x T)
SIS-2012202	20 x 12 x 2.0 R-2
SIS-2012203	20 x 12 x 2.0 R-3
SIS-2012204	20 x 12 x 2.0 R-4
SIS-2012205	20 x 12 x 2.0 R-5

## INSERT KNIVES - TRIANGLE SPUR KNIVES

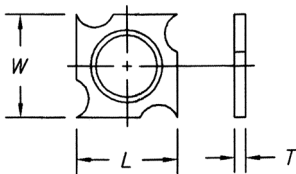
SITS-221920



PART #	DESCRIPTION (L x W x T)
SITS-221920	22 x 19 x 2.0

## INSERT KNIVES - SPUR/GROOVING KNIVES

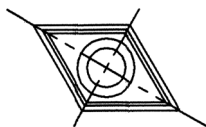
SISG-1818195



PART #	DESCRIPTION (L x W x T)
SISG-141420-2	14 x 14 x 20 2mm Radius
SISG-1818195	18 x 18 x 1.95
SISG-1818245	18 x 18 x 2.45
SISG-1818295	18 x 18 x 2.95
SISG-1818370	18 x 18 x 3.70

## INSERT KNIVES - SPUR/GROOVING KNIVES

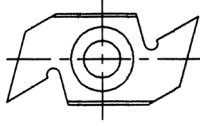
SISG-142820



PART #	DESCRIPTION (L x W x T)
SISG-142820	14 x 28 x 2.0 30 Degree
SISG-161630	16 x 16 x 3.0 32 Degree

## INSERT KNIVES - SPUR/GROOVING KNIVES

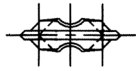
SISG-341640



PART #	DESCRIPTION (L x W x T)
SISG-341640	34 x 16 x 4.0
SISG-341650	34 x 16 x 5.0
SISG-341660	34 x 16 x 6.0
SISG-341670	34 x 16 x 7.0

## INSERT KNIVES - SPUR KNIVES

SISP-185735



PART #	DESCRIPTION (L x W x T)
SISP-185735	18 x 5.7 x 3.5

## INSERT KNIVES - RADIUS KNIVES

SI-301402LH

SI-301402RH



PART #	DESCRIPTION (L x W x T)
SI-301402LH	30 x 14 x 2 LH 3mm Radius LH
SI-301402RH	30 x 14 x 2 RH 3mm Radius RH

## INSERT KNIVES - V GROOVE KNIVES

SI-3951215V

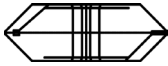


PART #	DESCRIPTION (L x W x T)
SI-3951215V	39.5 x 12 x 1.5 V

## INSERT KNIVES - LEITZ® SYSTEMS "BG - TEST"

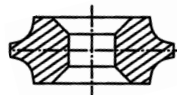


Leitz Systems "BG - TEST"



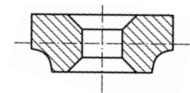
SI-152380-210

PART #	DESCRIPTION (L x W x T)
SI-152380-210	15 x 23 x 8 (21/0-45°)



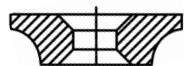
SI-152390-220

PART #	DESCRIPTION (L x W x T)
SI-152390-220	15 x 23 9 (22/0 R3)
SI-152373-223	15 x 23 7.3 (22/3 R2)
SI-152370-224	15 x 23 7.0 (22/4 R1.5)
SI-152390-225	15 x 23 9.0 (22/5 R3F)



SI-152390-221

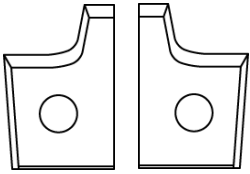
PART #	DESCRIPTION (L x W x T)
SI-152390-221	15 x 23 x 9.0 (22/1 R3)
SI-1525773-240	15 x 25.7 x 7.3 (24/0 R5)



SI-1525773-241

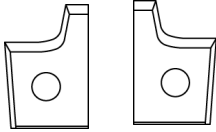
PART #	DESCRIPTION (L x W x T)
SI-1525773-241	15 x 25.7 x 7.3 (24/1 R5)

## INSERT KNIVES - QUADROMAT, IMA, MFA



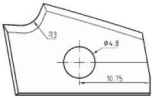
SIR-121802-LH SIR-121802-RH

PART #	DESCRIPTION (L x W x T)
SIR-121802-2LH	12 x 18 x 2 x 2mm Radius LH - Quadromat®
SIR-121802-2RH	12 x 18 x 2 x 2mm Radius RH - Quadromat®
SIR-121802-3LH	12 x 18 x 2 x 3mm Radius LH - Quadromat®
SIR-121802-3RH	12 x 18 x 2 x 3mm Radius RH - Quadromat®



SIR-121802-RH SIR-121802-LH

PART #	DESCRIPTION (L x W x T)
SIR-121802-2LH-MFA	12 x 18 x 2 x 2mm Radius LH - MFA
SIR-121802-2RH-MFA	12 x 18 x 2 x 2mm Radius RH - MFA
SIR-121802-3LH-MFA	12 x 18 x 2 x 3mm Radius LH - MFA
SIR-121802-3RH-MFA	12 x 18 x 2 x 3mm Radius RH - MFA

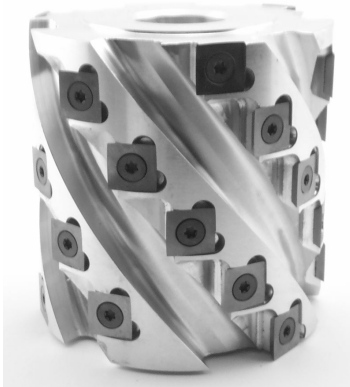


SIR-14223-3RH

PART #	DESCRIPTION (L x W x T)
SIR-14223-3LH*	14 x 22.3 x 3mm Radius - LH
SIR-14223-3RH*	14 x 22.3 x 3mm Radius - RH

\*Sold Individually

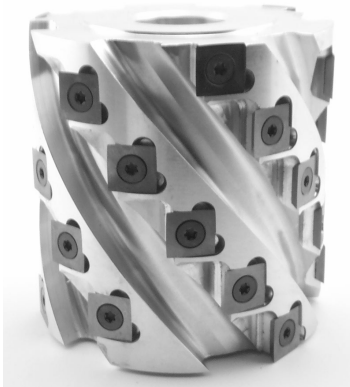
## SPIRAL PLUS MOLDER HEADS



PART #	CED	CEL	BORE	WINGS
SESPM-54-416	5"	4"	All	4
SESPM-56-420	5"	6"	All	4
SESPM-59-448	5"	9"	All	4
SESPM-54-624	5"	4"	All	6
SESPM-56-630	5"	6"	All	6
SESPM-59-660	5"	9"	All	6
SESPM-64-416	6"	4"	All	4
SESPM-66-420	6"	6"	All	4
SESPM-69-448	6"	9"	All	4
SESPM-64-624	6"	4"	All	6
SESPM-66-630	6"	6"	All	6
SESPM-69-660	6"	9"	All	6

1-13/16" is the most common bore  
Aircraft Grade Aluminum Body  
Replacement Inserts - SI-151525

## SPIRAL PLUS PROFILE SHAPER HEADS

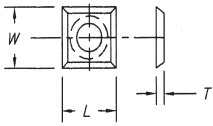


PART #	CED	CEL	BORE	WINGS
SESP-44-416	4"	4"	1 1/4"	4
SESP-45-420	4"	5"	1 1/4"	4
SESP-46-424	4"	6"	1 1/4"	4
SESP-44-624	4"	4"	1 1/4"	6
SESP-45-630	4"	5"	1 1/4"	6
SESP-46-636	4"	6"	1 1/4"	6

RB41250 4" Diameter Rub Bearing

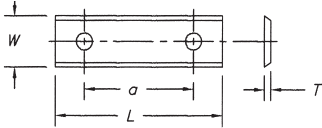
Replacement Inserts - SI-151525

## SPIRAL PLUS REPLACEMENT PARTS



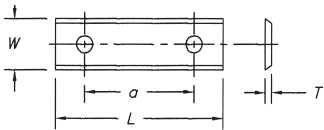
PART #	DESCRIPTION
SI-151525	Replacement Insert 15 x 15 x 2.5 (pack of 10)
SIS-Screw	Replacement Screw

## COMPONENT PARTS FOR INSERT TOOLING - INSERTS



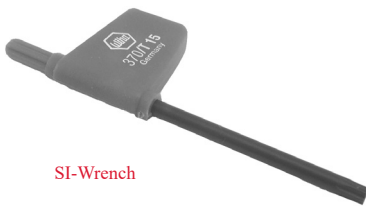
PART #	DESCRIPTION	PACK	SIDES
SI-301215	30 x 12 x 1.5	10	2 sided
SI-401215	40 x 12 x 1.5	10	2 sided
SI-501215	50 x 12 x 1.5	10	2 sided

## COMPONENT PARTS FOR INSERT TOOLING - INSERTS FOR END



PART #	DESCRIPTION	PACK	SIDES
SI-121215	12 x 12 x 1.5	10	4 sided
SI-2951215	29.5 x 12 x 1.5	10	4 sided
SI-3951215	39.5 x 12 x 1.5	10	4 sided
SI-4951215	49.5 x 12 x 1.5	10	4 sided

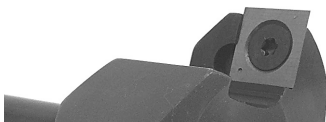
## COMPONENT PARTS FOR INSERT TOOLING - WRENCHES



SI-Wrench

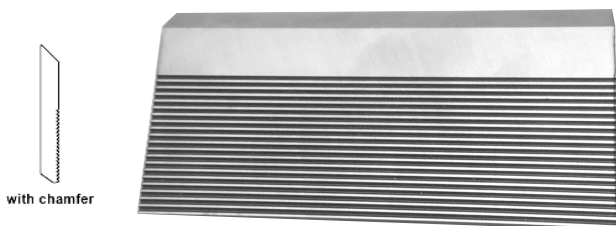
PART #	DESCRIPTION	PACK
SE-T8	T8 x 60 Torx Wrench	1
SI-Wrench	T15 Flag Style	1
SI-1580 Wrench	T15 Torx Wrench	1
SI-25100Wrench	T25 x 100 Torx Wrench	1

## COMPONENT PARTS FOR INSERT TOOLING - SCREWS



PART #	DESCRIPTION	PACK
SICS-Screw	Torx Screw	4
SI4-Screw	Torx Screw	4
SI35-Screw	Torx Screw	4
SEI-Screw	Torx Screw for SEIS1	EA
SIGSH-Screw	Torx Screw for Insert Heads	EA
SI-Screw10-32x6	Screws for SECS143IR	EA
SI-Screw10-32x9	Screws for Bolt in Inserts	EA

## HSS 60-16 MOLDER BARS - BEVEL BOTTOM - 5/16" THICK



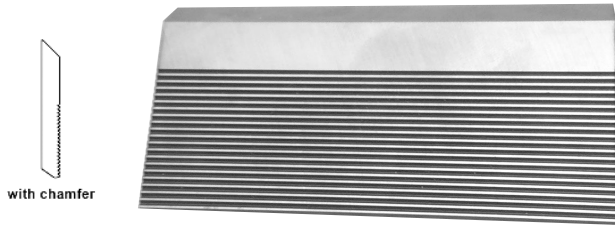
with chamfer

PART #	DESCRIPTION (W x T x L)
SEM2-1250-516	1-1/4" x 5/16" x 25"
SEM2-1500-516	1-1/2" x 5/16" x 25"
SEM2-1750-516	1-3/4" x 5/16" x 25"
SEM2-2000-516	2" x 5/16" x 25"
SEM2-2250-516	2-1/4" x 5/16" x 25"
SEM2-2500-516	2-1/2" x 5/16" x 25"
SEM2-2750-516	2-3/4" x 5/16" x 25"
SEM2-3000-516	3" x 5/16" x 25"

*Corrugated Back  
HSS M2*



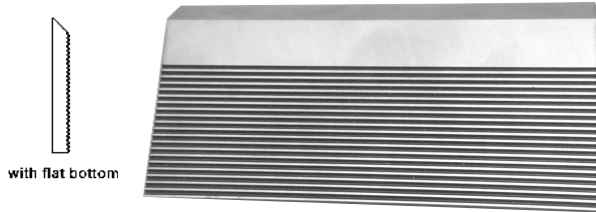
## HSS 60-16 MOLDER BARS - BEVEL BOTTOM - 1/4" THICK



PART #	DESCRIPTION (W x T x L)
SEM2-1250-14	1-1/4" x 1/4" x 25"
SEM2-1500-14	1-1/2" x 1/4" x 25"
SEM2-1750-14	1-3/4" x 1/4" x 25"
SEM2-2000-14	2" x 1/4" x 25"
SEM2-2250-14	2-1/4" x 1/4" x 25"
SEM2-2500-14	2-1/2" x 1/4" x 25"

*Corrugated Back*  
*HSS M2*

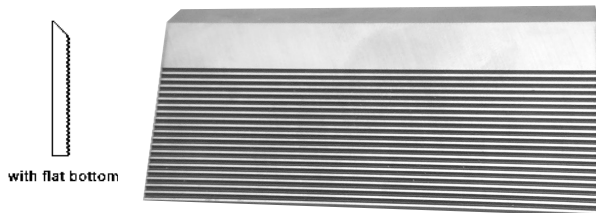
## HSS 60-16 MOLDER BARS - FLAT BOTTOM - 5/16" THICK



PART #	DESCRIPTION (W x T x L)
SEM2C-516-1250	1-1/4" x 5/16" x 25"
SEM2C-516-1500	1-1/2" x 5/16" x 25"
SEM2C-516-1750	1-3/4" x 5/16" x 25"
SEM2C-516-2000	2" x 5/16" x 25"
SEM2C-516-2250	2-1/4" x 5/16" x 25"
SEM2C-516-2500	2-1/2" x 5/16" x 25"
SEM2C-516-2750	2-3/4" x 5/16" x 25"
SEM2C-516-3000	3" x 5/16" x 25"

*Corrugated Back*  
*HSS M2*

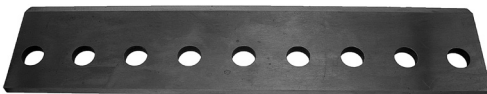
## HSS 60-16 MOLDER BARS - FLAT BOTTOM - 1/4" THICK



PART #	DESCRIPTION (W x T x L)
SEM2C-14-1250	1-1/4" x 1/4" x 25"
SEM2C-14-1500	1-1/2" x 1/4" x 25"
SEM2C-14-1750	1-3/4" x 1/4" x 25"
SEM2C-14-2000	2" x 1/4" x 25"
SEM2C-14-2250	2-1/4" x 1/4" x 25"
SEM2C-14-2500	2-1/2" x 1/4" x 25"

*HSS M2*

## WILLIAM & HUSSEY™



PART #	DESCRIPTION (W x T x L)	
SEWH-316-2000	2" x 3/16" x 25"	Smooth
SEWH-316-2000C	2" x 3/16" x 25"	60° Corrugated
SEWH-14-2000	2" x 1/4" x 25"	Smooth
SEWH-14-2000C	2" x 1/4" x 25"	60° Corrugated
SEWH-14-2250	2-1/4" x 1/4" x 25"	Smooth
SEWH-14-2250C	2-1/4" x 1/4" x 25"	60° Corrugated
SEWH-14-2500	2-1/2" x 1/4" x 25"	Smooth
SEWH-14-2500C	2-1/2" x 1/4" x 25"	60° Corrugated

*HSS M2*

## CORRUGATED BACK MOLDER HEADS - 2 KNIFE



Molder Head

PART #	CED	CEL	BORE
SEMH422ST	4" or 100mm	2"	1-1/4"
SEMH424ST	4" or 100mm	4"	1-1/4"
SEMH426ST	4" or 100mm	6"	1-1/4"

*When Ordering*  
Specify Hook - 12° or 20°  
Specify Bore  
Many sizes also available with Hydro Bore  
Self-Centering Sleeves Quoted on Request

## CORRUGATED BACK MOLDER HEADS - 4 KNIFE



Molder Head

PART #	CED	CEL	BORE
SEMH442ST	4" or 100mm	2"	1-1/4"
SEMH444ST	4" or 100mm	4"	1-1/4"
SEMH446ST	4" or 100mm	6"	1-1/4"
SEMH542ST	5" or 137mm	2"	1-1/2" or 44mm
SEMH544ST	5" or 137mm	4"	1-1/2" or 44mm
SEMH546ST	5" or 137mm	6"	1-1/2" or 44mm
SEMH549ST	5" or 137mm	9"	1-1/2" or 44mm

SEMH642ST	150mm	2"	1-13/16" or 50mm
SEMH644ST	150mm	4"	1-13/16" or 50mm
SEMH646ST	150mm	6"	1-13/16" or 50mm
SEMH649ST	150mm	9"	1-13/16" or 50mm

*When Ordering*  
Specify Hook - 12° or 20°  
Specify Bore  
Many sizes also available with Hydro Bore  
Self-Centering Sleeves Quoted on Request

## CORRUGATED BACK MOLDER HEADS - 6 KNIFE



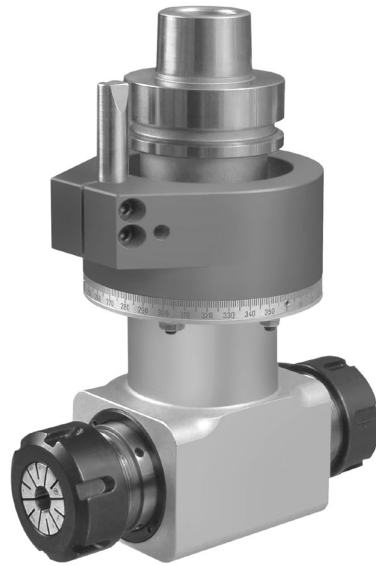
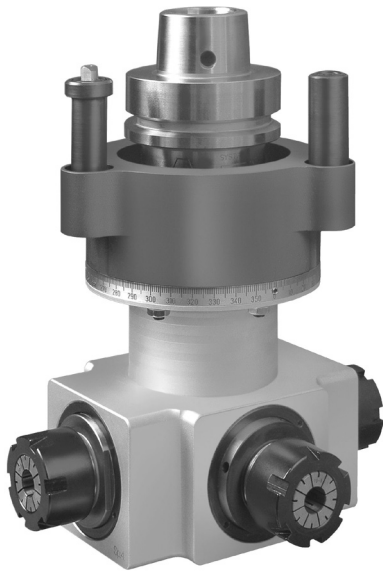
Molder Head

PART #	CED	CEL	BORE
SEMH662ST	150mm	2"	1-13/16", 2-1/8" or 50mm
SEMH664ST	150mm	4"	1-13/16", 2-1/8" or 50mm
SEMH666ST	150mm	6"	1-13/16", 2-1/8" or 50mm
SEMH669ST	150mm	9"	1-13/16", 2-1/8" or 50mm

*When Ordering*  
Specify Hook - 12° or 20°  
Specify Bore  
Many sizes also available with Hydro Bore  
Self-Centering Sleeves Quoted on Request

## AGGREGATE HEADS

Below are just some examples of the many possible heads. Due to the complexity of Aggregate heads and the additional information that we must have to get you an accurate quote, please call for pricing or to request more information.



# WORKHOLDING FOR CNC (COLLETS, TOOLHOLDERS AND ACCESSORIES)

## SYOZ 20 FOR WOODWORKING MACHINES (RDO20)



SE03520-12

PART #	Description	Diameter (mm)	Length (mm)	Inside Diameter
SE03520-03mm	SYOZ 20 3mm Collet	20	34	3mm
SE03520-18	SYOZ 20 1/8" Collet	20	34	1/8"
SE03520-316	SYOZ 20 3/16" Collet	20	34	3/16"
SE03520-05mm	SYOZ 20 5mm Collet	20	34	5mm
SE03520-14	SYOZ 20 1/4" Collet	20	34	1/4"
SE03520-516	SYOZ 20 5/16" Collet	20	34	5/16"
SE03520-38	SYOZ 20 3/8" Collet	20	34	3/8"
SE03520-10mm	SYOZ 20 10mm Collet	20	34	10mm
SE03520-716	SYOZ 20 7/16" Collet	20	34	7/16"
SE03520-12	SYOZ 20 1/2" Collet	20	34	1/2"

*This collet used on 6.8HP and 7HP dual end Perske® motors  
Other sizes available, call for pricing.*

## SYOZ 25 FOR WOODWORKING MACHINES (RDO35)



SE03868-12

PART #	Description	Diameter (mm)	Length (mm)	Inside Diameter
SE03868-18	SYOZ 25 1/8" Collet	35	52	1/8"
SE03868-316	SYOZ 25 3/16" Collet	35	52	3/16"
SE03868-732	SYOZ 25 7/32" Collet	35	52	7/32"
SE03868-14	SYOZ 25 1/4" Collet	35	52	1/4"
SE03868-516	SYOZ 25 5/16" Collet	35	52	5/16"
SE03868-38	SYOZ 25 3/8" Collet	35	52	3/8"
SE03868-716	SYOZ 25 7/16" Collet	35	52	7/16"
SE03868-12	SYOZ 25 1/2" Collet	35	52	1/2"
SE03868-916	SYOZ 25 9/16" Collet	35	52	9/16"
SE03868-58	SYOZ 25 5/8" Collet	35	52	5/8"
SE03868-34	SYOZ 25 3/4" Collet	35	52	3/4"
SE03868-78	SYOZ 25 7/8" Collet	35	52	7/8"
SE03868-1	SYOZ 25 1" Collet	35	52	1"
SE03868-6mm	SYOZ 25 6mm Collet	35	52	6mm
SE03868-7mm	SYOZ 25 7mm Collet	35	52	7mm
SE03868-10mm	SYOZ 25 10mm Collet	35	52	10mm
SE03868-12mm	SYOZ 25 12mm Collet	35	52	12mm
SE03868-16mm	SYOZ 25 16mm Collet	35	52	16mm
SE03868-20mm	SYOZ 25 20mm Collet	35	52	20mm
SE03868-25mm	SYOZ 25 25mm Collet	35	52	25mm

*This collet used on 12HP and 15HP Perske® motors and 7.5 Dual End Perske® motors  
Other sizes available, call for pricing*

## ULTRA HIGH-SPEED COATED CLAMPING NUTS



PART #	Description	Diameter (mm)	Length (mm)	Max Torque
SE03508	EOC 08	30	19	
SE03520	SYOZ 20/RDO 20	35	20	40ft lbs
SE03868	SYOZ 25/RDO 35	60	30	90ft lbs
SE03520-L*	SYOZ 20/RDO 20	35	20	40ft lbs
SE03868-L*	SYOZ 25/RDO 35	60	30	90ft lbs

*\*Left-Hand  
Compatible with RDO and Ortlieb Nuts Above*

## SPANNER WRENCHES - SYOZ 20 and SYOZ 25

PART #	Type
SE22220	SYOZ 20/RDO 20
SE03691	SYOZ 25/RDO 35

For SYOZ 20 and SYOZ 25 on previous page

## SHODA® COLLETS (OLD STYLE)



PART #	Description	Diameter (A) (mm)	Length (L) (mm)	Inside Diameter (d)
SESD-20mm-.250	20mm (old style) 1/4"	20	52	.250"
SESD-20mm-.312	20mm (old style) 5/16"	20	52	.312"
SESD-20mm-.375	20mm (old style) 3/8"	20	52	.375"
SESD-20mm-10mm	20mm(old style) 10mm	20	52	10mm
SESD-20mm-.500	20mm (old style) 1/2"	20	52	.500"
SESD-20mm-.625	20mm (old style) 5/8"	20	52	.625"
SESD-20mm-Nut	Old Style Nut	41	30	

## SHODA® COLLETS (PIGGY BACK)



PART #	Description	Diameter (A) (mm)	Length (L) (mm)	Inside Diameter (d)
SESD-C001-.125	Piggy back 1/8" Collet	16	52	.125"
SESD-C001-.187	Piggy back 3/16" Collet	16	52	.187"
SESD-C001-.250	Piggy back 1/4" Collet	16	52	.250"
SESD-C001-.312	Piggy back 5/16" Collet	16	52	.312"
SESD-C001-.375	Piggy back 3/8" Collet	16	52	.375"
SESD-C001-.500	Piggy back 1/2" Collet	16	52	.500"
SESD-C001-10mm	Piggy back 10mm Collet	16	52	10mm
SESD-C001-Nut	Nut for Piggy back	36	30	

## SHODA® COLLETS (NEW STYLE)



PART #	Description	Diameter (A) (mm)	Length (L) (mm)	Inside Diameter (d)
SESD-C015-.125	Shoda® 24mm (new style) 1/8	24	52	.125"
SESD-C015-.250	Shoda® 24mm (new style) 1/4	24	52	.250"
SESD-C015-.312	Shoda® 24mm (new style) 5/16	24	52	.312"
SESD-C015-.375	Shoda® 24mm (new style) 3/8	24	52	.375"
SESD-C015-.500	Shoda® 24mm (new style) 1/2	24	52	.500"
SESD-C015-.625	Shoda® 24mm (new style) 5/8	24	52	.625"
SESD-C015-.750	Shoda® 24mm (new style) 3/4	24	52	.750"
SESD-C015-10mm	Shoda® 24mm (new style) 10mm	24	52	10mm
SESD-C015-Nut	Nut for New Style	46	30	

## SHODA® COLLETS (SUPER SHODA®)



PART #	Description	Diameter (A) (mm)	Length (L) (mm)	Inside Diameter (d)
SESS-22-14	Super Shoda® 30,000 RPM	23	40	.250"
SESS-22-38	Super Shoda® 30,000 RPM	23	40	3/8"
SESS-22-10mm	Super Shoda® 30,000 RPM	23	40	10mm
SESS-22-12	Super Shoda® 30,000 RPM	23	40	1/2"
SESS-22-58	Super Shoda® 30,000 RPM	23	40	5/8"
SESS-22-Nut	Nut for Super Shoda®	36	15	
SESS-22-ext-nut	Extended Nut for Super Shoda®	36	30	

*Other sizes available, call for pricing.*

## SHODA® NUTS



Shoda® New Style Nut

PART #	Description	Diameter (mm)	Length(mm)
SESD-20mm-Nut	Old Style Nut	41	30
SESD-C001-Nut	Piggyback Nut	36	30
SESD-C015-Nut	New Style Nut	46	30
SESS-22-Nut	Super Shoda® Nut	36	15
SESS-22-ext-nut	Nut for Super Shoda®	36	30



Super Shoda® Nut



Super Shoda® Extended Nut



## ER PRECISION COLLETS - STANDARD SIZES



Collet ER32

ER11	ER16	ER20	ER25	ER32	ER40	Shank
SE04211-116	SE04216-116					1/16"
SE04211-332	SE04216-332	SE04220-332	SE04225-332	SE04232-332		3/32"
SE04211-18	SE04216-18	SE04220-18	SE04225-18	SE04232-18	SE04240-18	1/8"
SE04211-532	SE04216-532	SE04220-532	SE04225-532	SE04232-532	SE04240-532	5/32"
SE04211-316	SE04216-316	SE04220-316	SE04225-316	SE04232-316	SE04240-316	3/16"
SE04211-732	SE04216-732	SE04220-732	SE04225-732	SE04232-732	SE04240-732	7/32"
SE04211-14	SE04216-14	SE04220-14	SE04225-14	SE04232-14	SE04240-14	1/4"
	SE04216-932	SE04220-932	SE04225-932	SE04232-932	SE04240-932	9/32"
	SE04216-516	SE04220-516	SE04225-516	SE04232-516	SE04240-516	5/16"
	SE04216-1132	SE04220-1132	SE04225-1132	SE04232-1132	SE04240-1132	11/32"
	SE04216-38	SE04220-38	SE04225-38	SE04232-38	SE04240-38	3/8"
	SE04216-1332	SE04220-1332	SE04225-1332	SE04232-1332	SE04240-1332	13/32"
		SE04220-716	SE04225-716	SE04232-716	SE04240-716	7/16"
		SE04220-1532	SE04225-1532	SE04232-1532	SE04240-1532	15/32"
		SE04220-12	SE04225-12	SE04232-12	SE04240-12	1/2"
			SE04225-1732	SE04232-1732	SE04240-1732	17/32"
			SE04225-916	SE04232-916	SE04240-916	9/16"
			SE04225-1932	SE04232-1932	SE04240-1932	19/32"
			SE04225-58	SE04232-58	SE04240-58	5/8"
				SE04232-2132	SE04240-2132	21/32"
				SE04232-1116	SE04240-1116	11/16"
				SE04232-2332	SE04240-2332	23/32"
			SE04225-34	SE04232-34	SE04240-34	3/4"
					SE04240-78	7/8"
					SE04240-1	1"

*Inch Sizes - Standard .0004" TIR  
See Chart on Page 140 for dimensions.  
Other sizes available. Call for pricing.*



## ER PRECISION COLLETS - METRIC SIZES



Collet ER32

ER16	ER20	ER25	ER32	ER40	Shank
		SE04225-2mm			2mm
			SE04232-5mm		5mm
			SE04232-4mm		4mm
			SE04232-6mm		6mm
SE04216-7mm	SE04220-7mm	SE04225-7mm	SE04232-7mm	SE04240-7mm	7mm
SE04216-8mm	SE04220-8mm	SE04225-8mm	SE04232-8mm	SE04240-8mm	8mm
SE04216-10mm	SE04220-10mm	SE04225-10mm	SE04232-10mm	SE04240-10mm	10mm
	SE04220-12mm	SE04225-12mm	SE04232-12mm	SE04240-12mm	12mm
	SE04220-13mm	SE04225-13mm	SE04232-13mm	SE04240-13mm	13mm
		SE04225-14mm	SE04232-14mm	SE04240-14mm	14mm
		SE04225-16mm	SE04232-16mm	SE04240-16mm	16mm
			SE04232-18mm	SE04240-18mm	18mm
			SE04232-20mm	SE04240-20mm	20mm
				SE04240-22mm	22mm
				SE04240-25mm	25mm

*Metric Sizes (note mm is part of the part number)  
See Chart on Page 140 for dimensions.  
Other sizes available. Call for pricing.*

## ER PRECISION COLLET SETS



Collet Set

PART #	Description	Range	Includes
SE04205	ER32-Metric (18 pc. Set)	2mm-20mm	3-20mm
SE04211	ER25 (16 pc. Set)	1/8"-5/8"	5/32"-5/8"
SE04212	ER32 (18 pc. Set)	3/16"-3/4"	7/32"-3/4"
SE04213	ER40 (13 pc. Set)	1/8"-1"	1/8"-1"

*Sets come in wooden tray. Wooden tray also sold separately.*

## TG PRECISION COLLETS



TG75	TG100	TG150	Shank
SE04008-18	SE04010-18		1/8"
SE04008-316			3/16"
SE04008-14	SE04010-14		1/4"
SE04008-38	SE04010-38		3/8"
SE04008-10mm			
SE04008-12	SE04010-12	SE04011-12	1/2"
SE04008-58	SE04010-58	SE04011-58	5/8"
SE04008-34	SE04010-34	SE04011-34	3/4"
	SE04010-78	SE04011-78	7/8"
	SE04010-1	SE04011-1	1"
SE04008-nut			
	TG100-nut		

*See Chart on page 140 for dimensions.  
Other sizes available. Call for pricing.*

## HEIAN® COLLETS



PART #	Description
SEHN-24mm-.187	3/16" Heian® Collet (24mm)
SEHN-24mm-.375	3/8" Heian® Collet (24mm)
SEHN-24mm-.500	1/2" Heian® Collet (24mm)
SEHN-24mm-.625	5/8" Heian® Collet (24mm)
SEHN-24mm-.750	3/4" Heian® Collet (24mm)
SEHN-24mm-10	10mm Heian® Collet (24mm)
SEHN-24mm-20	20mm Heian® Collet (24mm)
SEHN-29mm-.187	3/16" Heian® Collet (29mm)
SEHN-29mm-.500	1/2" Heian® Collet (29mm)
SEHN-29mm-.750	3/4" Heian® Collet (29mm)
SEHN-Piggyback-14	1/4" Heian® Piggyback Collet
SEHN-Piggyback-38	3/8" Heian® Piggyback Collet
SEHN-Piggyback-12	1/2" Heian® Piggyback Collet
SEHN-Piggyback-58	5/8" Heian® Piggyback Collet

## ER BEARING NUTS



PART #	Description	Diameter	Inside Diameter	Length	Spanner	Max Clamp Torque
SE21225	ER25 Bearing Nut	42	21	22.5	SE04615	95 ft. lbs.
SE21232	ER32 Bearing Nut	50	27	23	SE04616	125 ft. lbs.
SE21240	ER40 Bearing Nut	63	34	28	SE04617	140 ft. lbs.

## ER HIGH SPEED COATED NUTS



PART #	Description	Dia	Inside Diameter	Length	Spanner	Max Clamp Torque
SE46111	ER11 High Speed Nut	19	14 x .75	11.8	SE04608	20 ft. lbs.
SE46116	ER16 High Speed Nut	32	22 x 1.5	18	SE04613	50 ft. lbs.
SE46120	ER20 High Speed Nut	35	25 x 1.5	19.5	SE04614	75 ft. lbs.
SE46125	ER25 High Speed Nut	42	32 x 1.5	20.5	SE04615	95 ft. lbs.
SE46132	ER32 High Speed Nut	50	40 x 1.5	23	SE04616	125 ft. lbs.
SE46140	ER40 High Speed Nut	63	50 x 1.5	26	SE04617	140 ft. lbs.

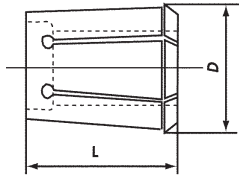
*Coated nuts give up to 100% more clamping pressure over bearing nuts.*

*For use when speeds exceed 15,000 rpm.*

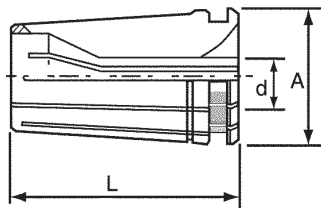
*Recommended torque is 80 to 90% of max value.*

*See page 145 for High Speed ER Mini Nuts.*

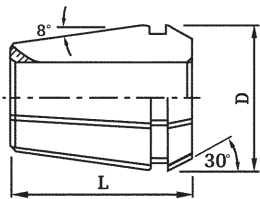
## EASY COLLET REFERENCE SHEET



**ER COLLET**



**TG COLLET**



**SYOZ COLLET**

COLLET SERIES	LENGTH	DIAMETER
ER 11	18mm (0.708")	11.5mm (0.45")
ER 16	27.5mm (1.08")	17mm (0.67")
ER 20	31.5mm (1.24")	21mm (0.83")
ER 25	34mm (1.34")	26mm (1.02")
ER 32	40mm (1.57")	33mm (1.31")
ER 40	46mm (1.81")	41mm (1.61")
ER 50	60mm (2.36")	52mm (2.05")
EOC 8	26mm (1.026")	14.4mm(0.567")
SYOZ 20 • RDO 20 • EOC 12 • 407E	34mm (1.34")	20mm (0.78")
EOC 16 • RDO 25	40mm (1.57")	25.5mm (1")
SYOZ 25 • RDO 35 • 462E	52mm (2.06")	35mm (1.38")
EOC 32	60mm (2.36")	43.7mm (1.72")
TG 75	47mm (1.85")	27mm (1.06")
TG 100	60mm (2.36")	35mm (1.38")
TG 150	76.2mm (3.00")	50.8mm (2.00")
<b>Shoda® Collets</b>		
SD-20mm	52mm (2.06")	20mm (Back side)
SD-C001	52mm (2.06")	16mm (Back side)
SD-C015	52mm (2.06")	24mm (Back side)
SS-22	40mm (1.57")	22.5mm 0.89" (OD)
<b>Heian® Collets</b>		
HN-24mm	55mm (2.16")	24mm (Back side)
HN-29mm	55mm (2.16")	29mm (Back side)
HN-Piggyback	36.5mm (1.43")	22mm (Back side)

**ALMOST ALL COLLETS HAVE A DISTINCTIVE LENGTH AND DIAMETER. USE THE REFERENCE SHEET ABOVE TO DETERMINE YOUR COLLET TYPE.**

## ER SPANNER WRENCHES



Slotted Wrench



Hook Wrench



Hex Wrench



Mini Wrench



A Hex Wrench

PART #	Description	Collet Nut	Length	Width	Nut Type
SE04613	ER16 Wrench	SE41616	160	55	Slotted
SE04614	ER20 Wrench	SE41620	180	60	Slotted
SE04615	ER25 Wrench	SE46125	206	65	Slotted
SE04616	ER32 Wrench	SE46132	253	75	Slotted
SE04617	ER40 Wrench	SE46140	289	90	Slotted
SE04618	ER50 Wrench	SE41950	351	110	Slotted
SE04620	ER8 Wrench	SE23108	75	13	ER Mini
SE04621	ER11 Wrench	SE23111	95	17	ER Mini
SE04622	ER16 Wrench	SE23116	117	22.5	ER Mini
SE04623	ER20 Wrench	SE23120	129	28.5	ER Mini
SE04624	ER25 Wrench	SE23125	142.5	35.5	ER Mini
SE04018	TG75 Wrench	SE27500	206	39	Hook
SE03691	TG100/SYOZ25 Wrench	SE28110	260	46	Hook
SE22220	SYOZ20 Wrench	SE03520		34	Hook

**TYPE A, UM, RU, M**

## TOOL HOLDERS FOR CNC ROUTERS



ISO Holder

Collet Nuts are included with holder.

PART #	Description	D	A	F	N	Flat	Wrench
SE06000-2016M	ISO 20 x ER 16M-52mm	30	52	15.9	22	17	SE04622
SE06000-2516	ISO 20 x ER 16-52mm	30	52	15.9	32	17	SE04613
SE06000-2520	ISO 20 x ER 20-52mm	30	52	15.9	35	17	SE04614
SE12407-W	ISO 30 x ER 11M-100mm	50	100	15.9	16	14	SE04621
SE12000-CMS	ISO 30 x ER 32-CMS	46	58	15.9	50	36	SE04616
SE12040	ISO 30 x ER 40-CMS	46	66	15.9	63	42	SE04617
SE12213-W-50	ISO 30 x ER 32-50mm	50	50	15.9	50	47	SE04616
SE12213-W-50-L	ISO 30 x ER 32-50mm Left	50	50	15.9	50	47	SE04616
SE12213-W-63	ISO 30 x ER 32-63mm	50	63	15.9	50	36	SE04616
SE12213-W-63-L	ISO 30 x ER 32-63mm Left	50	63	15.9	50	36	SE04616
SE12213-W-90	ISO 30 x ER 32-90mm	50	90	15.9	50	36	SE04616
SE12215-W-57	ISO 30 x ER 40-57mm	50	57	15.9	63	47	SE04617
SEPE30DF2056	ISO 30 x ER 32	46	58	15.9	50	36	SE04616
SEPE30DM20	ISO 30 x ER 32 W/Locking Teeth						SE04616
SE12261-W	ISO 40 x ER40-70mm	63.55	70	15.9	63	46	SE04617

### ISO AND SK COLLET HOLDERS

Balanced to 25,000 RPM @ G2.5

Collet Nuts are included with holder.

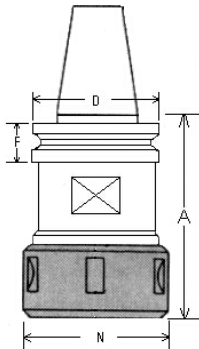
## ANDI®/WEEKE®/THERMWOOD® CNC CHUCKS

PART #	Description	D	A	F	N	Flat	Wrench
SENT-54300130	SK-30 x OZ 25 Toolholder	50	70	15.9	60	38	SE03691
SENT-54300130-L	SK-30 x OZ 25 LH Toolholder	50	70	15.9	60	38	SE03691
SEISO-30-THERM	Thermwood ISO 30 x ER32-50mm	57	57.5	20	50	None	SE04616

Collet Nuts are included with holder.

Dimensions in millimeters.

## BT30 CHUCKS

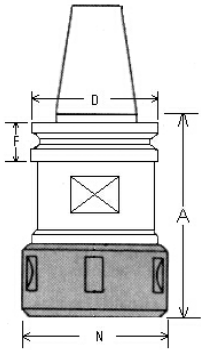


PART #	Description	D	A	F	N	Wrench
SE06106-W	BT30 x ER 20-70mm w/o Slots	46	70	20	34	SE04614
SE06106-slotnut	BT30 x ER20-70mm w/ Slots	46	70	20	35	SE04614
SE06107	BT30 x ER20-135mm w/o Slots	46	135	20	35	SE04614
SE06107-slotnut	BT30 x ER20-135mm w/ Slots	46	135	20	35	SE04614
SE06108-2.5	BT30 x ER20-2.5" w/o Slots	46	63.5	20	34	SE04610
SE06108-2.5-slotnut	BT30 x ER20-2.5" w/ Slots	46	63.5	20	35	SE04614
SE06109	BT30 x ER25-70mm	46	70	20	42	SE04615
SE06110-W-60	BT30 x ER25-60mm	46	60	20	42	SE04615
SE06111	BT30 x ER25-135mm	46	135	20	42	SE04615
SE06111-90	BT30 x ER25-90mm	46	90	20	42	SE04615
SE06112	BT30 x ER 32-60mm w/ Slots	46	60	20	50	SE04616
SE06113-W-60	BT30 x ER 32-60mm w/o Slots	46	60	20	50	SE04616
SE06113-W-60-A*	BT30 x ER32-60mm Komo	46	60	20	50	SE04616
SE06113-W-60L	BT30 x ER 32-60mm Left Hand	46	60	20	50	SE04616
SE06113	BT30 x ER 32-70 w/ Slots	46	70	20	50	SE04616
SE06113-W-90	BT30 x ER 32-90mm w/o Slots	46	90	20	50	SE04616
SE06114	BT30 x ER 32-100mm	46	100	20	50	SE04616
SE06115	BT30 x ER40-80mm	46	80	20	63	SE04616
SE06001-W	BT30 x SYOZ 25-70mm w/o Slots	46	70	20	60	SE03691
SE06001	BT30 x SYOZ 25-70mm	46	70	20	60	SE03691

Collet Nuts are included with holder.

\*Pull Stud Included 41mm Flats Komo

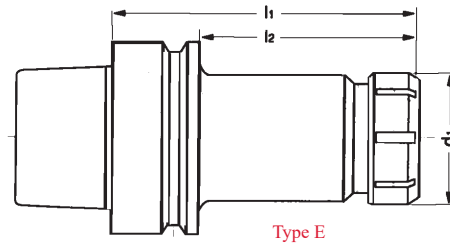
## BT35 CHUCKS



PART #	Description	D	A	F	N	Wrench
SE06010	BT35 x SYOZ 25-76mm	53	76	22	60	SE03691
SE061BT353276	BT35 x ER 32-76mm	53	76	22	50	SE04616

*Collet Nuts are included with holder.  
Dimensions in millimeters.*

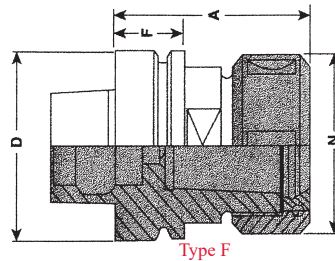
## HSK E COLLET TOOLHOLDERS



Type E

PART #	Description	D	d1	L1	L2	Flats	Wrench
SE31374-60	HSK 32E x ER25	32mm	42mm	60mm	45mm	22mm	SE04615
SE8905001	HSK 40E x ER16 - 65	40mm	28mm	65mm	45mm	24mm	SE04613
SE8905002	HSK 40E x ER25 - 75	40mm	42mm	75mm	55mm	27mm	SE04615
SE8905003	HSK 40E x ER32 - 100	40mm	50mm	100mm	80mm	35mm	SE04616
SE8505002	HSK 50E x ER32 - 85	50mm	50mm	85mm	59mm	36mm	SE04616
SE8605002	HSK 63E x ER32 - 90	63mm	50mm	90mm	64mm	36mm	SE04616
SE8605003	HSK 63E x ER40 - 120	63mm	63mm	120mm	94mm	46mm	SE04617
SE50001	HSK 63E x ER40 - 75	63mm	63mm	75mm	49mm	46mm	SE04617

## HSK F COLLET TOOLHOLDERS



Type F

PART #	Description	D	A	F	N	Flats	Wrench
SE40050	HSK 50F x ER32 - 80mm	50mm	80mm	26mm	50mm	NONE	SE04616
SE17105-008001	HSK 63F x ER16 - 60mm	63mm	60mm	26mm	32mm	26mm	SE04613
SE17105-008002	HSK 63F x ER16 - 100mm	63mm	100mm	26mm	32mm	26mm	SE04613
SE30000	HSK 63F x ER32 - 70mm	63mm	70mm	26mm	50mm	36mm	SE04616
SE30001	HSK 63F x ER40 - 76mm	63mm	76mm	26mm	63mm	46mm	SE04617
SE30002	HSK 63F x ER40 - 90mm	63mm	90mm	26mm	63mm	46mm	SE04617
SE30005	HSK 63F x ER40 - 125mm	63mm	125mm	26mm	63mm	46mm	SE04617
SE41025	HSK 63F x SYOZ 25 - 80mm	63mm	80mm	26mm	60mm	38mm	SE03691

# Toolholder Measuring Guide – Special Order

USE THIS GUIDE FOR MEASURING YOUR TOOLS TO DETERMINE WHAT YOU NEED TO RE-ORDER, OR FOR SPECIAL ORDER TOOLHOLDERS BUILT TO YOUR SPECIFICATIONS.

Make & model of CNC router \_\_\_\_\_

**Pull Stud dimensions**

P= \_\_\_\_\_

A= \_\_\_\_\_

L= \_\_\_\_\_

R= \_\_\_\_\_

**Toolholder Dimensions**

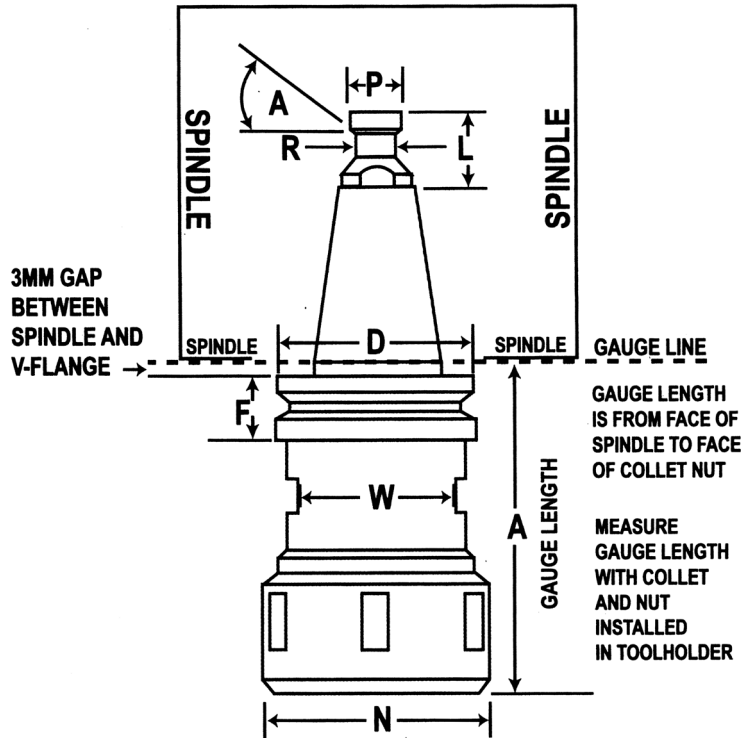
D= \_\_\_\_\_

F= \_\_\_\_\_

W= \_\_\_\_\_

A= \_\_\_\_\_

N= \_\_\_\_\_



Make & model of HSK spindle CNC router \_\_\_\_\_

**Toolholder Dimensions**

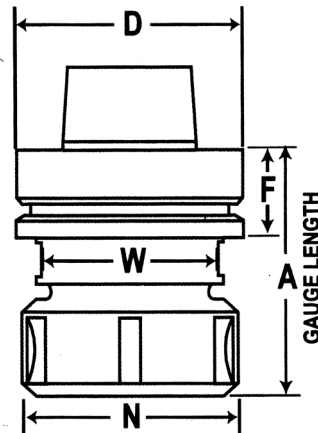
D= \_\_\_\_\_

F= \_\_\_\_\_

W= \_\_\_\_\_

A= \_\_\_\_\_

N= \_\_\_\_\_





## ER TOOL EXTENDERS



PART #	Shank	Overall Length	Diameter	Collet	Wrench	Nut
SE04889	3/8"	124mm	12mm	ER8	SE04620	SE23108
SE04891	1/2"	166.5mm	16mm	ER11	SE04621	SE23111
SE04893	5/8"	158.5mm	16mm	ER11	SE04621	SE23111
SE04895	1/2"	177mm	22mm	ER16	SE04622	SE23116
SE04896	3/4"	165mm	22mm	ER16	SE04622	SE23116
SE04894	3/4"	180mm	28mm	ER20	SE04623	SE23120
SE04897	1"	168mm	28mm	ER20	SE04623	SE23120
SE04888	1"	190mm	35mm	ER25	SE04624	SE23125
SE04898	3/4"	140mm	35mm	ER25	SE04624	SE23125

*Extension length should not exceed a 4:1 ratio of length to diameter. For example, a 1/2" shank should not extend more than 2" in front of the holder. This is true only for applications where the extension is rotating. Extenders have threaded thru holes for a backup screw. Includes nut. Collet and wrench sold separately!*

## AIRPRO™ NUT



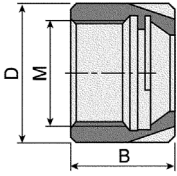
## AIRPRO™ NUT SPECIFICATIONS

PART #	Description	Min RPM	Max RPM	D	L	H	h	Weight	Adapter	Torque
SE453200	ER32 AirPRO	18,000	24,000	1.97"	3.77"	1.77"	1.24"	1.1lb	04604-32	100 lb. ft
SE454000	ER40 AirPRO	18,000	24,000	2.48"	4.06"	1.81"	1.13"	1.4lb	04605-40	130 lb. ft
SE452500	SYOZ25 AirPRO	18,000	24,000	2.36"	3.92"	1.97"	1.13"	1.3lb	03690-25	90 lb. ft

*Optimal Gap - .070"  
Max Chip Load - .020"  
Wrench - SE200TH*



## ER MINI NUTS



PART #	Description	D	B	M	Wrench	Maximum Torque
SE23108	ER 8 Mini Nut	12mm	11mm	M10 x 0.75	SE04620	7 ft/lbs
SE23111	ER 11 Mini Nut	16mm	12mm	M13 x 0.75	SE04621	14 ft/lbs
SE23116	ER 16 Mini Nut	22mm	18mm	M19 x 1.0	SE04622	22 ft/lbs
SE23120	ER 20 Mini Nut	28mm	19.5mm	M24 x 1.0	SE04623	25 ft/lbs
SE23125	ER 25 Mini Nut	35mm	21mm	M30 x 1.0	SE04624	29 ft/lbs

## ER HIGH-SPEED MINI NUTS

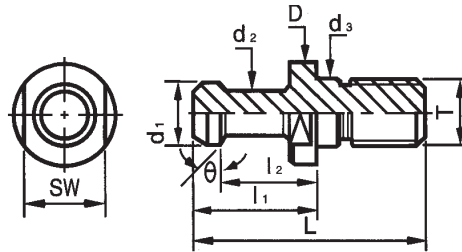


ER High-Speed Nut

PART #	Description	D	B	M	Wrench	Maximum Torque
SE33108	ER 8 HS Mini Nut	12mm	11mm	M10 x 0.75	SE04620	7 ft/lbs
SE33111	ER 11 HS Mini Nut	16mm	12mm	M13 x 0.75	SE04621	14 ft/lbs
SE33116	ER 16 HS Mini Nut	22mm	18mm	M19 x 1.0	SE04622	22 ft/lbs
SE33120	ER 20 HS Mini Nut	28mm	19.5mm	M24 x 1.0	SE04623	25 ft/lbs
SE33125	ER 25 HS Mini Nut	35mm	21mm	M30 x 1.0	SE04624	29 ft/lbs
SE33125-L	ER 25 HS L-Hand Nut	35mm	21mm	M30 x 1.0	SE04624	29 ft/lbs

*Use ER High-Speed mini nuts for applications where speed exceeds 10,000 RPMs. They are balanced to G2.5 for 20,000 RPMs. These nuts are used on collet holders and multi-spindle heads where center or shoulder distances are important.*

## PULL STUDS (RETENTION KNOBS) FOR CNC ROUTERS



PART #	Type	D	d1	d2	d3	L	L1	L2	0	Threads
SE750-19	KOMO 30-A12.5	17	13	9	12.5	44	23.4	18.2	15°	M12
SE13001	DAT 30-A	17	13	9	13	44	24	19	15°	M12
SE13003	DAT 40-A	23	19	14	17	54	26	20	15°	M16
SE13001-45	Colombo 30 Ball	17	12.8	9	13	44	24	19	45°	M12
SE13019	HSD ISO30	17	12	8	13	44	23.9	-	Radius	M12
SE07801	BT 30-45°	16.5	11	7	12.5	43	23	-	45°	M12
SE07803	BT 40-45°	23	15	10	17	60	35	28	-	M16
SE07805	BT 50-45°	38	23	17	25	85	45	35	-	M24
SE07806	BT 30-60°	16.5	11	7	12.5	43	23	-	-	M12
SE07808	BT 40-60°	23	15	10	17	60	35	28	60°	M16
SE07810	BT 50-60°	38	23	17	25	85	45	35	-	M24
SE07812	BT 30-90°	16.5	11	7	12.5	43	23	8	-	M12
SE07814	BT 40-90°	23	15	10	17	60	35	28	-	M16
SE4403502	BT 35-Heian	20	13	8.5	12.5	48	28	22.5	15°	M12

SE13001 Colombo® Spindles

SE13001-45 Colombo® Spindles  
Clamping by Balls

SE750-19 Komo® Router for  
BT30 Holder

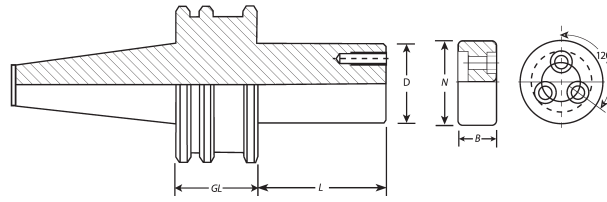
SE13019 HSD® Spindles

*Please make sure that the pull stud you order is the exact pull stud your machine uses. Improper choice of a pull stud can cause damage to your machine spindle, the tool holder, and can cause a serious safety hazard.*

## ISO 30 ARBORS



ISO 30

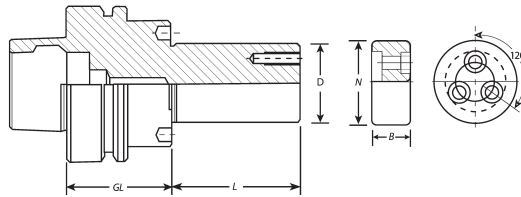


Special 3 screw design for enhanced safety

PART #	Description	L	GL	D	B	N
SE12700-40	ISO 30 x 1 1/4" x 40mm arbor	40mm	42mm	1-1/4"	20mm	42mm
SE12700-55	ISO 30 x 1 1/4" x 55mm arbor	55mm	42mm	1-1/4"	20mm	42mm
SE12700-80	ISO 30 x 1 1/4" x 80mm arbor	80mm	42mm	1-1/4"	20mm	42mm
SE12700-100	ISO 30 x 1 1/4" x 100mm arbor	100mm	42mm	1-1/4"	20mm	42mm

Special sizes made to your specifications. Contact us for details.

## HSK 63F ARBORS



PART #	Description	D	L	N	B	GL
SE41060	HSK 63F 1 1/4" arbor x 55mm	1-1/4"	55mm	42mm	20mm	45mm
SE41080-3H	HSK 63F 1 1/4" arbor x 80mm	1-1/4"	80mm	42mm	20mm	45mm
SE41085	HSK 63F 1 1/4" arbor x 100mm	1-1/4"	100mm	42mm	20mm	45mm
SE41087	HSK 63F 1 1/4" arbor x 112mm	1-1/4"	112mm	42mm	20mm	45mm

## TIGHTENING STAND FOR ISO, HSK63 & BT30

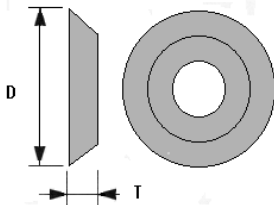


PART #	Description	Toolholder Used For
SENTS-ISO30-36	ISO 30-36mm Flats	12213-W-63, 12213-W-90
SENTS-ISO30-38	ISO 30-38mm Flats	NT-5400130
SENTS-ISO30-47	ISO 30-47mm Flats	12213-W-50, 12215-W-57
SENTS-BT30-38	BT30 Taper 38mm Flats	
SENTS-BT30-SLOT	BT30 with Drive Slots	
SENTS-BT30-41	BT 30 - Taper 41mm Flats	06113-W-60
SENTS-HSK63A	HSK 63A No Flats	
SENTS-HSK63F-36	HSK 63F - 36mm Flats	30000
SENTS-HSK63F-38	HSK 63F - 38mm Flats	41025
SENTS-HSK63F-41	HSK 63F - 41mm Flats	
SENTS-HSK63F-46	HSK 63F - 46mm Flats	30001, 30005, 50001
SENTS-BD-15	Handle	
SE70000-36	Slide for 36mm flats	
SE70000-38	Slide for 38mm flats	
SE70000-41	Slide for 41mm flats	
SE70000-46	Slide for 46mm flats	

- New design for easy access to pull studs from bottom
- Constructed of precision machined anodized alloy
- Outstanding strength, speed, and durability
- Securely bolts right on CNC Machine or workbench

## CNC ACCESSORIES

### DUST COVERS FOR COLLET NUTS

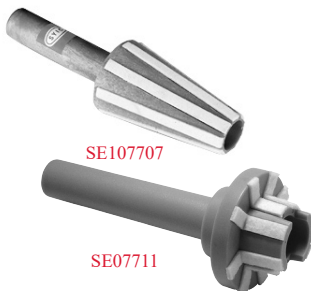


SEDC32

PART #	DESCRIPTION
SEDC32-316	Dust Cover 3/16" Shank
SEDC32-14	Dust Cover 1/4" Shank
SEDC32-516	Dust Cover 5/16" Shank
SEDC32-38	Dust Cover 3/8" or 10 mm Shank
SEDC32-12	Dust Cover 1/2" Shank
SEDC32-58	Dust Cover 5/8" Shank
SEDC32-34	Dust Cover 3/4" Shank

- 1 1/2" Diameter x 1/4" thick
- Sold Individual

### SPINDLE TAPER WIPERS



SE107707

SE07711

PART #	Taper	Length	Taper Length	Handle Diameter	Taper Max. Diameter
SE07703	30	170	60	24	32
SE07704	40	188	78	24	45
SE07705	50	240	120	30	70
SE07710	HSK63A	165	31	22	n/a
SE07711	HSK63F	165	31	22	n/a

## COLLET BRUSHES



PART #	Description
SECB250	1/4" Brush
SECB312	5/16" Brush
SECB375	3/8" Brush
SECB500	1/2" Brush
SECB625	5/8" Brush
SECB750	3/4" Brush
SECB1000	1" Brush
SECB-4KIT	1/4", 3/8", 1/2", 3/4" Brushes
SECB-7KIT	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1" Brushes

## TORQUE WRENCH



Torque Wrench

PART #	Description	Range of Torque	Length	Spigot
SE50TH	Torque Wrench	5-45 ft/lbs	12"	16mm Round
SE200TH	Torque Wrench	30-150 ft/lbs	16.5"	16mm Round
SE300TH	Torque Wrench	45-228 ft/lbs	21.5"	16mm Round

## TORQUE WRENCH ACCESSORIES



PART #	Collet Nut Size	Wrench	Maximum Torque
SESD-20mm-TWA	Fits all Old Style SD Collet Nuts	Hook	
SESD-C001-TWA	Fits Piggy Back Style Collet Nuts	Hook	
SESD-C015-TWA	Fits New Style SD Collet Nuts	Hook	
SESS22TWA	Fits all SS-22 Collet Nuts	Hex	50 ft/lbs
SESS22EXTWA	Fits all SS-22 Extended Nuts	Hex	50 ft/lbs
SE04580-16	ER 16	Slotted	50 ft/lbs
SE04601-16	ER 16 Hex	Hex	50 ft/lbs
SE04580-20	ER 20	Slotted	75 ft/lbs
SE04602-20	ER 20 Hex	Hex	75 ft/lbs
SE04603-25	ER 25 Slotted	Slotted	95 ft/lbs
SE04576	ER 11 Mini	Mini	14 ft/lbs
SE04577	ER 16 Mini	Mini	22 ft/lbs
SE04578	ER 20 Mini	Mini	25 ft/lbs
SE04587	ER 25 M	Mini	45 ft/lbs
SE04604-32	ER 32 Slotted	Slotted	125 ft/lbs
SE04605-40	ER 40 Slotted	Slotted	140 ft/lbs
SE03690-25	SYOZ 25/TG 100	Hook	100 ft/lbs
SE04018-TWA	TG 75 Slotted	Hook	100 ft/lbs
SE04588-R	ER 32 Slotted	Slotted	125 ft/lbs

FOR BT, CAT, ISO and HSK TOOL HOLDERS

## RETENTION KNOB SOCKETS



PART #	Taper or Holder	Wrench Flats	Square Drive	Maximum Torque
SEPSS-30BT	BT 30 Taper Pull Studs	0.535"	3/8"	40 ft/lbs
SEPSS-30ISO	ISO 30 Taper Pull Studs	0.535"	3/8"	40 ft/lbs
SEPSS-40	BT 30 Taper Pull Studs	0.750"	3/8"	85 ft/lbs
SEPSS-50	BT 50 Taper Pull Studs	1.187"	1/2"	110 ft/lbs
SEPSSC-50	CAT 50 Taper Pull Studs	1.250"	1/2"	110 ft/lbs

## FIXED HEAD SQUARE DRIVES



PART #	Description	Square Drive
SE29828	3/8" Square Drive	3/8" Drive
SE29827	1/2" Square Drive	1/2" Drive

## CNC ROUTER TABLE PODS



PART #	Description
SERTP110	1 3/4" D x 1" H
SERTP120	1 3/4" D x 1 1/2" H
SERTP130	1 3/4" D x 2" H
SERTP140	1 3/4" D x 2 1/2" H
SERTP150	1 3/4" D x 3" H
SERTP310	3" D x 1" H
SERTP320	3" D x 1 1/2" H
SERTP330	3" D x 2" H
SERTP340	3" D x 2 1/2" H
SERTP350	3" D x 3" H

## MEASURING EQUIPMENT



PART #	Description
SE54-212-012	12" Height Gauge
SE17906-2	Analog Axial Preset Gauge



# KNIVES

## PLANER & JOINTER KNIFE SETS - 1/8" THICKNESS

T-1 HSS PART #	Carbide-Tipped PART #	Length	Width	Knives in set	Fits Planer/Joiner
PK7000	PKC7001	4"	5/8"	3	Delta® 4", Atlas®, Boice Crane®, Old Craftsman® & Similar Jointers
PK7002	PKC7003	6"	5/8"	3	Old Delta® 6", TTL, Boice Crane®, Craftsman®, Rockwell®
PK7004	N/A	6"	5/8"	4	Boice Crane®
PK7006	PKC7007	6"	3/4"	3	Powermatic® 50
PK7008	PKC7009	6"	1"	3	Grizzly®
PK7010	N/A	6-1/16"	5/8"	3	Powermatic®, Jet® JJ-6®
PK7012	PKC7013	6-1/16"	13/16"	3	Delta® DJ-15, 37-154 & Similar 6" Jointers
PK7016	N/A	6-1/8"	5/8"	3	Craftsman®
PK7018	PKC7019	6-1/8"	11/16"	3	Jet®
PK7020	PKC7021	8"	5/8"	3	Old Delta® 8", TTL®, Boice Crane®, Rockwell®, Jet® JJ-8, Powermatic® 60, Pryor®
PK7022	PKC7023	8"	3/4"	3	
PK7024	PKC7025	8"	3/4"	4	Bridgewood®
PK7026	PKC7027	8"	7/8"	3	Powermatic® 50
PK7028	PKC7029	8"	1"	3	Grizzly®
PK7032	N/A	8-1/16"	5/8"	3	Delta®
PK7034	N/A	8-1/16"	3/4"	3	Sunhill Machinery®
PK7036	PKC7037	8-1/16"	13/16"	3	Delta® DJ-20 Joiner & Similar
PK7038	N/A	12"	3/4"	3	Grizzly®
PK7040	PKC7041	12"	7/8"	3	Powermatic® & Parks®
PK7042	PKC7043	12"	1"	3	Craftsman®
PK7044	PKC7045	12"	1-1/4"	3	Northfield®
PK7046	N/A	12-1/4"	3/4"	3	Boice Crane®, Reliant®, Wilke®
PK7048	PKC7049	12-1/4"	7/8"	3	Powermatic®
PK7050	PKC7051	12-1/4"	1"	3	Most European Combo Machines
PK7052	N/A	12-1/2"	5/8"	3	Boice Crane®
PK7054	PKC7055	12-1/2"	11/16"	3	RBI® Model 812, Foley-Belsaw®, Jet®
PK7056	PKC7057	12-1/2"	3/4"	3	Jet®, Grizzly®, Wilke®, Reliant®, Most 12" Imports
PK7058	PKC7059	13-1/16"	5/8"	3	Jet®
PK7060	PKC7061	13-1/8"	1"	3	Delta® RC-33 & DC-33 13" Planer, Rockwell®
PK7062	PKC7063	15"	1"	3	Delta® DC-380, Grizzly®, Reliant®, Woodtch®, TLL®, Jet®
PK7064	N/A	15-1/16"	1"	3	Delta® 22-677
PK7066	PKC7067	15-3/4"	1-3/16"	4	SCMI®
PK7068	N/A	16"	1"	3	Jet® JWP16
PK7070	N/A	16"	1-1/8"	4	Bridgewood®, Crescent®, Grizzly®
PK7072	PKC7073	16"	1-1/4"	3	NorthField®
PK7076	PKC7076	16-3/16"	1-3/16"	4	SCMI®
PK7078	PKC7079	16-1/2"	11/16"	4	RBI® Model 816
PK7086	PKC7087	18-1/2"	11/16"	3	Woodmaster®
PK7088	PKC7089	20"	1"	3	Grizzly®, Northwood®
PK7090	PKC7091	20"	1"	4	Parks®, TLL® 20", Jet® 208, Northstate®
PK7092	PKC7093	20"	1-1/8"	4	Delta® 20 x 9
PK7094	PKC7095	20"	1-3/16"	4	Delta® 20" Planer, Many Imports
PK7096	N/A	20"	1-1/4"	3	Woodtek®
PK7098	PKC7099	20-3/16"	1-3/16"	4	Delta® DC-580
PK7100	PKC7101	20-3/16"	1-3/8"	4	Delta® RC-51
PK7104	PKC7105	20-1/2"	1-3/16"	4	SCMI®
PK7106	N/A	22-1/8"	1"	4	Powermatic® 201
PK7110	PKC7111	24-1/8"	1-3/16"	4	Grizzly®
PK7112	PKC7113	24-1/4"	1-1/8"	3	Delta® 22-470
PK7114	PKC7115	24-1/4"	1-1/8"	4	Crescent® (Delta®)
PK7116	PKC7117	24-3/4"	1-1/8"	3	Jet® 24H
PK7118	PKC7119	24-13/16"	1-3/8"	4	Delta® RC-63
PK7120	PKC7121	25"	11/16"	3	Woodmaster® 725
PK7122	PKC7123	25"	1-1/4"	4	
PK7124	N/A	25"	1-3/8"	4	
PK7126	PKC7127	25-3/16"	1-3/8"	4	SCMI® F630 & F535

## PLANER & JOINTER KNIFE SETS - 3/32" THICKNESS

T-1 HSS PART #	Caride-Tipped PART #	Length	Width	Knives in Set	Fits Planer/Jointer
PK7014	N/A	6-1/8"	5/8"	3	Delta® 37-190, Jointer®
PK7030	N/A	8-1/16"	5/8"	3	Delta®

## PLANER & JOINTER KNIFE SETS - 5/32" THICKNESS

T-1 HSS PART #	Caride-Tipped PART #	Length	Width	Knives in Set	Fits Planer/Jointer
PK7074	PKC7075	16-1/4"	1-1/4"	3	Powermatic®
PK7080	PKC7081	18"	1-1/4"	3	Powermatic®
PK7082	PKC7083	18-1/8"	1-1/8"	3	Rockwell®, Delta®
PK7084	PKC7085	18-1/4"	1-1/4"	3	Powermatic
PK7102	PKC7103	20-1/4"	1-1/4"	3	Powermatic
PK7108	PKC7109	24"	1-1/4"	4	Powermatic, Northfield



# REPLACEMENT KNIVES FOR SYSTEM TERMINUS PLANER HEAD - HSS



System Terminus

T-1 AVAILABLE UPON REQUEST,  
CALL FOR AVAILABILITY

HSS PART #	L (mm)	W (mm)	T (mm)
SE100348	50	14	2.55
SE100350	60	14	2.55
SE100349	80	14	2.55
SE100297	100	14	2.55
SE100351	110	14	2.55
SE100352	120	14	2.55
SE055461	130	14	2.55
SE114608	136	14	2.55
SE100353	140	14	2.55
SE100354	150	14	2.55
SE100355	160	14	2.55
SE100356	170	14	2.55
SE100357	180	14	2.55
SE100358	190	14	2.55
SE100359	200	14	2.55
SE100360	210	14	2.55
SE100361	220	14	2.55
SE055462	230	14	2.55
SE100362	240	14	2.55
SE100363	250	14	2.55
SE114621	255	14	2.55
SE100364	260	14	2.55
SE100365	270	14	2.55
SE114624	275	14	2.55
SE100366	280	14	2.55
SE100367	300	14	2.55
SE055468	310	14	2.55
SE114626	330	14	2.55
SE100368	350	14	2.55
SE100369	360	14	2.55
SE100370	400	14	2.55
SE055464	410	14	2.55
SE100371	420	14	2.55
SE100372	430	14	2.55
SE100373	450	14	2.55
SE100463	463	14	2.55
SE100550	480	14	2.55
SE114637	500	14	2.55
SE055465	510	14	2.55
SE100374	520	14	2.55
SE100375	530	14	2.55
SE055466	610	14	2.55
SE100376	620	14	2.55
SE100377	630	14	2.55
SE100378	640	14	2.55
SE055467	650	14	2.55
SE114646	710	14	2.55
SE114647	810	14	2.55
SE114648	1050	14	2.55

## REPLACEMENT KNIVES FOR SYSTEM TERMINUS PLANER HEAD - SOLID CARBIDE



System Terminus

Carbide T10MG PART #	L (mm)	W (mm)	T (mm)
SE100790	30	14	2.55
SE100796	50	14	2.55
SE100803	60	14	2.55
SE100804	80	14	2.55
SE100805	100	14	2.55
SE100806	110	14	2.55
SE100807	120	14	2.55
SE055496	130	14	2.55
SE107532	136	14	2.55
SE100808	140	14	2.55
SE100809	150	14	2.55
SE100811	160	14	2.55
SE100812	170	14	2.55
SE100813	180	14	2.55
SE100814	190	14	2.55
SE100815	200	14	2.55
SE100816	210	14	2.55
SE100817	220	14	2.55
SE054752	230	14	2.55
SE100818	240	14	2.55
SE100819	250	14	2.55
SE107533	255	14	2.55
SE100820	260	14	2.55
SE100821	270	14	2.55
SE107534	275	14	2.55
SE100822	280	14	2.55
SE100823	300	14	2.55
SE055497	310	14	2.55
SE107535	330	14	2.55
SE100824	350	14	2.55
SE100825	360	14	2.55
SE100826	400	14	2.55
SE055498	410	14	2.55
SE100828	420	14	2.55
SE100829	430	14	2.55
SE100830	450	14	2.55
SE100940	480	14	2.55
SE104977	500	14	2.55
SE055499	510	14	2.55
SE100831	520	14	2.55
SE100832	530	14	2.55
SE055500	610	14	2.55
SE100833	620	14	2.55
SE100834	630	14	2.55
SE100835	640	14	2.55
SE055501	650	14	2.55

## REPLACEMENT KNIVES FOR SYSTEM TERSA PLANER HEADS



System TERSA  
System TERSA knives have a  
10.0mm width and thickness  
of 2.3mm

T-1 AVAILABLE UPON REQUEST,  
CALL FOR AVAILABILITY

HSS M2 PART #	HSS M42 PART #	Carbide T10MG PART #	Length
SE100395	SE114539	SE100847	60
SE107545	SE114540	SE104212	75
SE100396	SE114541	SE100848	80
SE107546	SE114542	SE104398	90
SE107547	SE114543	SE104211	95
SE100397	SE114544	SE055509	100
SE100398	SE114545	SE100849	110
SE100399	SE114547	SE100851	120
SE107548	SE114548	SE104022	125
SE100400	SE114549	SE055510	130
SE103821	SE114550	SE103823	135
SE104613	SE114551	SE104766	140
SE107549	SE114552	SE104210	145
SE100401	SE114553	SE100852	150
SE102716	SE114554	SE103943	160
SE100402	SE114555	SE100853	170
SE100403	SE114556	SE100854	180
SE102774	SE114557	SE105070	185
SE104808	SE114558	SE104399	190
SE104243	SE114559	SE105698	200
SE100404	SE114560	SE100855	210
SE104566	SE114561	SE104589	220
SE100405	SE114562	SE055511	230
SE101718	SE114563	SE103824	235
SE101720	SE114564	SE104043	240
SE100406	SE114565	SE100856	250
SE100407	SE114566	SE100857	260
SE104326	SE114567	SE104573	265
SE102982	SE114568	SE101673	270
SE100408	SE114569	SE100858	280
SE100409	SE114570	SE100859	300
SE100410	SE114571	SE055512	310
SE104686	N/A	N/A	315
SE104687	SE114572	SE107550	320
SE100411	SE114573	SE100861	330
SE100412	SE114574	SE100862	350
SE100413	SE114575	SE100863	360
SE100414	SE114576	SE100864	400
SE100415	SE114577	SE055513	410
SE105267	SE114578	SE107551	415
SE100416	SE114579	SE100865	420
SE100417	SE114580	SE055514	430
SE100418	SE114581	SE100866	450
SE100419	SE114582	SE100867	500
SE100420	SE114583	SE055515	510
SE100421	SE114584	SE055516	520
SE100422	SE114585	SE100868	530
SE100423	SE114586	SE100869	540
SE103994	SE114587	SE104720	600
SE100424	SE114588	SE055517	610
N/A	N/A	SE055625	625
SE100425	SE114589	SE055518	630
SE100428	SE114590	SE102179	635
SE100426	SE114591	SE100870	640
SE100427	SE114592	SE055519	650
SE114119	SE114593	N/A	710
SE113435	SE114594	N/A	810
SE114599	SE114595	N/A	1050

## REPLACEMENT KNIVES FOR SYSTEM TERSA PLANER HEADS - T-1 HSS



System Tera

T-1 PART #	Length
SE114520	410
SE114527	520

*System Tera knives have a 10.0mm width and thickness of 2.3mm*

## REPLACEMENT KNIVES FOR WEINING HEADS SYSTEM CENTROLOCK-HSS



System Centrollock

HSS PART #	L (mm)	W (mm)	T (mm)
SE100386	20	16	3
SE100387	60	16	3
SE100388	80	16	3
SE055469	100	16	3
SE055470	130	16	3
SE100389	150	16	3
SE055471	170	16	3
SE100390	180	16	3
SE055472	190	16	3
SE100391	210	16	3
SE100298	230	16	3
SE100392	235	16	3
SE055473	240	16	3
SE100343	260	16	3
SE055474	270	16	3
SE100393	310	16	3
SE055475	460	16	3
SE055476	650	16	3

*T-1 Available upon request, call for availability*

## REPLACEMENT KNIVES FOR SYSTEM CENTROFIX - HSS



System Centrofix

HSS PART #	L (mm)	W (mm)	T (mm)
SE055490	230	12	2.7
SE055491	410	12	2.7
SE055493	520	12	2.7
SE114786	640	12	2.7

*T-1 Available upon request, call for availability*

## REPLACEMENT KNIVES FOR WEINING HEADS SYSTEM CENTROLOCK - SOLID CARBIDE



System Centrollock

Carbide T10MG PART #	L (mm)	W (mm)	T (mm)
SE100836	20	16	3
SE100837	60	16	3
SE100838	80	16	3
SE055502	100	16	3
SE055503	130	16	3
SE100839	150	16	3
SE055504	170	16	3
SE100840	180	16	3
SE100841	190	16	3
SE100842	210	16	3
SE054753	230	16	3
SE100844	235	16	3
SE055505	240	16	3
SE100845	260	16	3
SE055506	270	16	3
SE100846	310	16	3
SE055507	460	16	3
SE055508	650	16	3

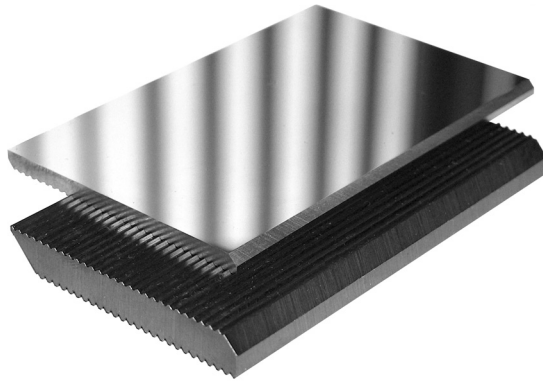
## REPLACEMENT KNIVES FOR SYSTEM CENTROFIX-SOLID CARBIDE



System Centrofix

Carbide T10MG PART #	L (mm)	W (mm)	T (mm)
SE100881	120	12	2.7

## REPLACEMENT KNIVES FOR SUPERPAC



T10MG PART #	T04F PART #	L (mm)	W (mm)	T (mm)	L (mm)	W (mm)	T (mm)	Backing Plate PART #
SE043933	SE024082	40	38	3.2	40	35	7.1	SE024090
SE043934	SE043924	50	38	3.2	50	35	7.1	SE043957
SE043935	SE024115	60	38	3.2	60	35	7.1	SE024123
SE043936	SE024148	80	38	3.2	80	35	7.1	SE024156
SE043937	SE023949	100	38	3.2	100	35	7.1	SE023957
SE043938	SE023982	120	38	3.2	120	35	7.1	SE023990
SE043939	SE024016	130	38	3.2	130	35	7.1	SE024024
SE043940	SE024049	150	38	3.2	150	35	7.1	SE024057
SE043962	SE043961	170	38	3.2	170	35	7.1	SE045837
SE043941	SE024093	40	50	3.2	40	47	7.1	SE024101
SE043942	SE043927	50	50	3.2	50	47	7.1	SE043958
SE043943	SE024126	60	50	3.2	60	47	7.1	SE024134
SE043944	SE024159	80	50	3.2	80	47	7.1	SE024167
SE043945	SE023960	100	50	3.2	100	47	7.1	SE023968
SE043946	SE023993	120	50	3.2	120	47	7.1	SE024001
SE043947	SE024027	130	50	3.2	130	47	7.1	SE024035
SE043948	SE024060	150	50	3.2	150	47	7.1	SE024068
SE043966	SE043965	170	50	3.2	170	47	7.1	SE045838
SE043949	SE024104	40	60	3.2	40	57	7.1	SE024112
SE043950	SE043931	50	60	3.2	50	57	7.1	SE043959
SE043951	SE024137	60	60	3.2	60	57	7.1	SE024145
SE043952	SE024170	80	60	3.2	80	57	7.1	SE024178
SE043953	SE023971	100	60	3.2	100	57	7.1	SE023979
SE043954	SE024004	120	60	3.2	120	57	7.1	SE024012
SE043955	SE024038	130	60	3.2	130	57	7.1	SE024046
SE043956	SE024071	150	60	3.2	150	57	7.1	SE024079
SE043970	SE043969	170	60	3.2	170	57	7.1	SE045839

# CARBIDE SAW TIPS



Grade Grain Size	Binder [m %]	-----Hardness----- (SEVNB)		Transverse Rupture Strength [MPa]	Fracture Toughness (SEVNB) [MPa*m <sup>1/2</sup> ]
		HV10	HRA		
<b>Nano Grades</b>					
KCR02+	2.0%	2250	95.0	2400	7.5
<b>Ultrafine Grain</b>					
KCR05+	3.0%	2160	94.5	2900	7.8
<b>Submicron Grades</b>					
KCR06	3.0%	1950	93.6	2300	8.5
KCR10	4.0%	1780	92.8	2800	10.1
KCR18+	9.5%	1590	91.7	3750	10.8
CTOPP10	10.0%	1570	91.6	3000	10
<b>Coarse Grain</b>					
KCR32	10.0%	1140	87.7	2600	16.5
GC32	10.0%	1130	87.6	2600	18

## Tool Life vs Performance based on Wood Types

GRADE	WINTER PRIMARY WOOD	SUMMER PRIMARY WOOD	SOFTWOOD	HARDWOOD	CHIPBOARD	MDF	HDF
KCR02+					••	••••	••••
KCR05+				•••	••••	•••	•••
KCR06				••••	•••	••	••
KCR10	•	•••	••••	•••			
KCR18+	••	••••	•••	••			
KCR32	••••	••					
GC32	••••	••					
CTOPP10		••	•••	•			

\*KCR32: better corrosion resistance

\*GC32: better toughness

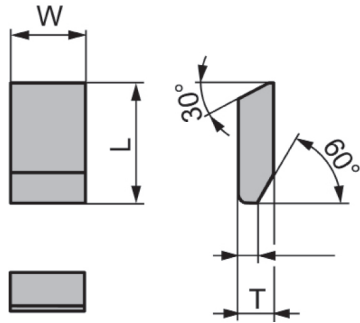
Tool life/Performance: optimum: •••• very good: ••• good: •• suitable: • not good:



**To Order saw tips:**  
Choose a style, then specify pretinned (PT) or untinned (TS90),  
then Grade of carbide (see chart page 158).

EXAMPLE: WDC 7100 PT KCR06

**WBC STYLE - SAW TIPS**

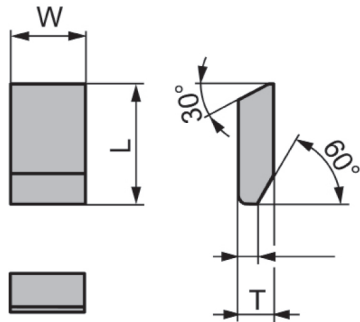


STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WBC 7085	0.281	0.085	0.078	30	0	60
WBC 7100	0.281	0.100	0.078	30	0	60
WBC 7120	0.281	0.120	0.078	30	0	60
WBC 7135	0.281	0.135	0.078	30	0	60
WBC 7150	0.281	0.150	0.078	30	0	60
WBC 7165	0.281	0.165	0.078	30	0	60
WBC 7180	0.281	0.180	0.078	30	0	60
WBC 7195	0.281	0.195	0.078	30	0	60

Sold in Packs of 250 Pieces

Tips in-stock can be pretinned within one week.  
All tips braze ready.

**WDC STYLE - SAW TIPS**

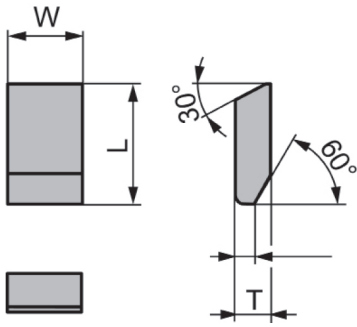


STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WDC 7100	0.312	0.100	0.093	30	0	60
WDC 7105	0.312	0.105	0.093	30	0	60
WDC 7110	0.312	0.110	0.093	30	0	60
WDC 7115	0.312	0.115	0.093	30	0	60
WDC 7120	0.312	0.120	0.093	30	0	60
WDC 7125	0.312	0.125	0.093	30	0	60
WDC 7130	0.312	0.130	0.093	30	0	60
WDC 7135	0.312	0.135	0.093	30	0	60
WDC 7140	0.312	0.140	0.093	30	0	60
WDC 7150	0.312	0.150	0.093	30	0	60
WDC 7155	0.312	0.155	0.093	30	0	60
WDC 7160	0.312	0.160	0.093	30	0	60
WDC 7165	0.312	0.165	0.093	30	0	60
WDC 7170	0.312	0.170	0.093	30	0	60
WDC 7175	0.312	0.175	0.093	30	0	60
WDC 7180	0.312	0.180	0.093	30	0	60
WDC 7185	0.312	0.185	0.093	30	0	60
WDC 7190	0.312	0.190	0.093	30	0	60
WDC 7200	0.312	0.200	0.093	30	0	60
WDC 7210	0.312	0.210	0.093	30	0	60
WDC 7215	0.312	0.215	0.093	30	0	60
WDC 7220	0.312	0.220	0.093	30	0	60
WDC 7230	0.312	0.230	0.093	30	0	60
WDC 7250	0.312	0.250	0.093	30	0	60
WDC 7280	0.312	0.280	0.093	30	0	60
WDC 7281	0.312	0.281	0.093	30	0	60
WDC 7312	0.312	0.312	0.093	30	0	60

Sold in Packs of 250 Pieces

Tips in-stock can be pretinned within one week.  
All tips braze ready.

## WEC STYLE - SAW TIPS

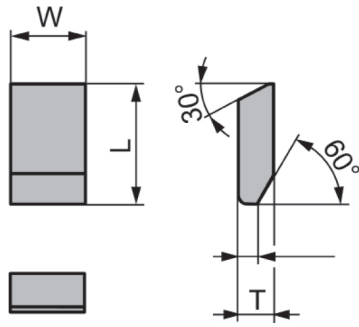


Tips in-stock can be pretinned within one week.  
All tips braze ready.

STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WEC 7110	0.375	0.110	0.093	30	0	60
WEC 7120	0.375	0.120	0.093	30	0	60
WEC 7130	0.375	0.130	0.093	30	0	60
WEC 7135	0.375	0.135	0.093	30	0	60
WEC 7140	0.375	0.140	0.093	30	0	60
WEC 7150	0.375	0.150	0.093	30	0	60
WEC 7165	0.375	0.165	0.093	30	0	60
WEC 7170	0.375	0.170	0.093	30	0	60
WEC 7175	0.375	0.175	0.093	30	0	60
WEC 7180	0.375	0.180	0.093	30	0	60
WEC 7185	0.375	0.185	0.093	30	0	60
WEC 7190	0.375	0.190	0.093	30	0	60
WEC 7200	0.375	0.200	0.093	30	0	60
WEC 7205	0.375	0.205	0.093	30	0	60
WEC 7210	0.375	0.210	0.093	30	0	60
WEC 7215	0.375	0.215	0.093	30	0	60
WEC 7220	0.375	0.220	0.093	30	0	60
WEC 7225	0.375	0.225	0.093	30	0	60
WEC 7230	0.375	0.230	0.093	30	0	60
WEC 7240	0.375	0.240	0.093	30	0	60
WEC 7250	0.375	0.250	0.093	30	0	60
WEC 7260	0.375	0.260	0.093	30	0	60
WEC 7265	0.375	0.265	0.093	30	0	60
WEC 7280	0.375	0.280	0.093	30	0	60
WEC 7281	0.375	0.281	0.093	30	0	60
WEC 7300	0.375	0.300	0.093	30	0	60
WEC 7312	0.375	0.312	0.093	30	0	60
WEC 7375	0.375	0.375	0.093	30	0	60
WEC 7400	0.375	0.400	0.093	30	0	60

*Sold in Packs of 250 Pieces*

## WFC STYLE - SAW TIPS

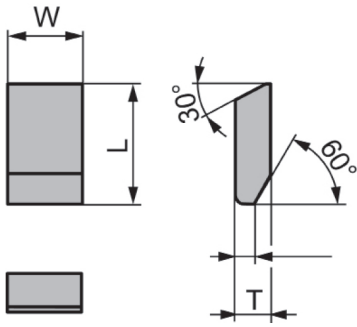


Tips in-stock can be pretinned within one week.  
All tips braze ready.

STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WFC 7110	0.500	0.110	0.125	35	0	70
WFC 7115	0.500	0.115	0.125	35	0	70
WFC 7120	0.500	0.120	0.125	35	0	70
WFC 7125	0.500	0.125	0.125	35	0	70
WFC 7130	0.500	0.130	0.125	35	0	70
WFC 7135	0.500	0.135	0.125	35	0	70
WFC 7140	0.500	0.140	0.125	35	0	70
WFC 7145	0.500	0.145	0.125	35	0	70
WFC 7150	0.500	0.150	0.125	35	0	70
WFC 7155	0.500	0.155	0.125	35	0	70
WFC 7160	0.500	0.160	0.125	35	0	70
WFC 7165	0.500	0.165	0.125	35	0	70
WFC 7170	0.500	0.170	0.125	35	0	70
WFC 7175	0.500	0.175	0.125	35	0	70
WFC 7180	0.500	0.180	0.125	35	0	70
WFC 7185	0.500	0.185	0.125	35	0	70
WFC 7190	0.500	0.190	0.125	35	0	70
WFC 7195	0.500	0.195	0.125	35	0	70
WFC 7200	0.500	0.200	0.125	35	0	70
WFC 7205	0.500	0.205	0.125	35	0	70
WFC 7210	0.500	0.210	0.125	35	0	70
WFC 7215	0.500	0.215	0.125	35	0	70
WFC 7220	0.500	0.220	0.125	35	0	70
WFC 7230	0.500	0.230	0.125	35	0	70
WFC 7235	0.500	0.235	0.125	35	0	70
WFC 7240	0.500	0.240	0.125	35	0	70
WFC 7250	0.500	0.250	0.125	35	0	70
WFC 7256	0.500	0.256	0.125	35	0	70
WFC 7260	0.500	0.260	0.125	35	0	70
WFC 7265	0.500	0.265	0.125	35	0	70
WFC 7270	0.500	0.270	0.125	35	0	70
WFC 7275	0.500	0.275	0.125	35	0	70
WFC 7280	0.500	0.280	0.125	35	0	70
WFC 7285	0.500	0.285	0.125	35	0	70
WFC 7290	0.500	0.290	0.125	35	0	70
WFC 7300	0.500	0.30	0.125	35	0	70
WFC 7310	0.500	0.310	0.125	35	0	70
WFC 7312	0.500	0.312	0.125	35	0	70
WFC 7330	0.500	0.330	0.125	35	0	70
WFC 7335	0.500	0.335	0.125	35	0	70
WFC 7340	0.500	0.340	0.125	35	0	70
WFC 7350	0.500	0.350	0.125	35	0	70
WFC 7375	0.500	0.375	0.125	35	0	70
WFC 7400	0.500	0.400	0.125	35	0	70
WFC 7430	0.500	0.430	0.125	35	0	70
WFC 7437	0.500	0.437	0.125	35	0	70
WFC 7500	0.500	0.500	0.125	35	0	70
WFC 7562	0.500	0.562	0.125	35	0	70
WFC 7625	0.500	0.625	0.125	35	0	70
WFC 7687	0.500	0.687	0.125	35	0	70
WFC 7750	0.500	0.750	0.125	35	0	70

Sold in Packs of 250 Pieces

## WGC STYLE - SAW TIPS

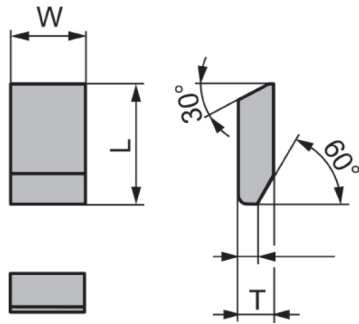


Tips in-stock can be pretinned within one week.  
All tips braze ready.

STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WGC 7090	0.375	0.090	0.125	30	0	60
WGC 7100	0.375	0.100	0.125	30	0	60
WGC 7105	0.375	0.105	0.125	30	0	60
WGC 7110	0.375	0.110	0.125	30	0	60
WGC 7115	0.375	0.115	0.125	30	0	60
WGC 7120	0.375	0.120	0.125	30	0	60
WGC 7125	0.375	0.125	0.125	30	0	60
WGC 7130	0.375	0.130	0.125	30	0	60
WGC 7135	0.375	0.135	0.125	30	0	60
WGC 7140	0.375	0.140	0.125	30	0	60
WGC 7145	0.375	0.145	0.125	30	0	60
WGC 7150	0.375	0.150	0.125	30	0	60
WGC 7155	0.375	0.155	0.125	30	0	60
WGC 7160	0.375	0.160	0.125	30	0	60
WGC 7165	0.375	0.165	0.125	30	0	60
WGC 7170	0.375	0.170	0.125	30	0	60
WGC 7175	0.375	0.175	0.125	30	0	60
WGC 7180	0.375	0.180	0.125	30	0	60
WGC 7185	0.375	0.185	0.125	30	0	60
WGC 7190	0.375	0.190	0.125	30	0	60
WGC 7195	0.375	0.195	0.125	30	0	60
WGC 7200	0.375	0.200	0.125	30	0	60
WGC 7210	0.375	0.210	0.125	30	0	60
WGC 7215	0.375	0.215	0.125	30	0	60
WGC 7220	0.375	0.220	0.125	30	0	60
WGC 7225	0.375	0.225	0.125	30	0	60
WGC 7228	0.375	0.228	0.125	30	0	60
WGC 7230	0.375	0.230	0.125	30	0	60
WGC 7240	0.375	0.240	0.125	30	0	60
WGC 7250	0.375	0.250	0.125	30	0	60
WGC 7256	0.375	0.256	0.125	30	0	60
WGC 7260	0.375	0.260	0.125	30	0	60
WGC 7265	0.375	0.265	0.125	30	0	60
WGC 7270	0.375	0.270	0.125	30	0	60
WGC 7275	0.375	0.275	0.125	30	0	60
WGC 7280	0.375	0.280	0.125	30	0	60
WGC 7300	0.375	0.300	0.125	30	0	60
WGC 7310	0.375	0.310	0.125	30	0	60
WGC 7312	0.375	0.375	0.125	30	0	60
WGC 7320	0.375	0.320	0.125	30	0	60
WGC 7335	0.375	0.335	0.125	30	0	60
WGC 7350	0.375	0.350	0.125	30	0	60
WGC 7400	0.375	0.400	0.125	30	0	60
WGC 7500	0.375	0.500	0.125	30	0	60
WGC 7550	0.375	0.550	0.125	30	0	60

*Sold in Packs of 250 Pieces*

## WHC STYLE - SAW TIPS

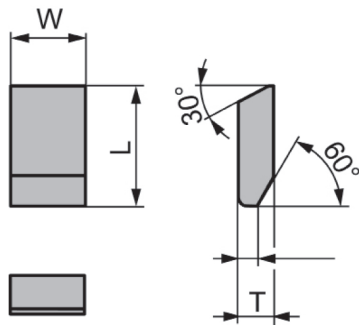


Tips in-stock can be pretinned within one week.  
All tips braze ready.

STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WHC 7120	0.344	0.120	0.125	30	0	60
WHC 7135	0.344	0.135	0.125	30	0	60
WHC 7150	0.344	0.150	0.125	30	0	60
WHC 7165	0.344	0.165	0.125	30	0	60
WHC 7200	0.344	0.200	0.125	30	0	60
WHC 7215	0.344	0.215	0.125	30	0	60
WHC 7230	0.344	0.230	0.125	30	0	60
WHC 7250	0.344	0.250	0.125	30	0	60
WHC 7265	0.344	0.265	0.125	30	0	60
WHC 7280	0.344	0.280	0.125	30	0	60

*Sold in Packs of 250 Pieces*

## WQC STYLE - SAW TIPS

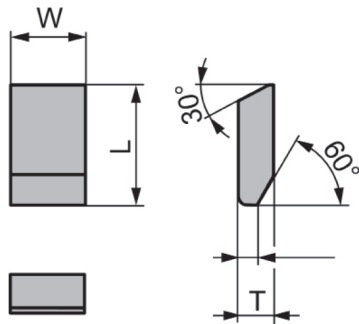


Tips in-stock can be pretinned within one week.  
All tips braze ready.

STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WQC 7230	0.375	0.230	0.156	30	0	60
WQC 7250	0.375	0.250	0.156	30	0	60
WQC 7300	0.375	0.300	0.156	30	0	60
WQC 7400	0.375	0.400	0.156	30	0	60
WQC 7530	0.375	0.530	0.156	30	0	60
WQC 7625	0.375	0.625	0.156	30	0	60

*Sold in Packs of 250 Pieces*

## WXC STYLE - SAW TIPS



Tips in-stock can be pretinned within one week.  
All tips braze ready.

STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WXC 7095	0.437	0.095	0.125	30	0	70
WXC 7100	0.437	0.100	0.125	30	0	70
WXC 7105	0.437	0.105	0.125	30	0	70
WXC 7110	0.437	0.110	0.125	30	0	70
WXC 7115	0.437	0.115	0.125	30	0	70
WXC 7120	0.437	0.120	0.125	30	0	70
WXC 7125	0.437	0.125	0.125	30	0	70
WXC 7130	0.437	0.130	0.125	30	0	70
WXC 7135	0.437	0.135	0.125	30	0	70
WXC 7140	0.437	0.140	0.125	30	0	70
WXC 7150	0.437	0.150	0.125	30	0	70
WXC 7155	0.437	0.155	0.125	30	0	70
WXC 7160	0.437	0.160	0.125	30	0	70
WXC 7165	0.437	0.165	0.125	30	0	70
WXC 7170	0.437	0.170	0.125	30	0	70
WXC 7175	0.437	0.175	0.125	30	0	70
WXC 7180	0.437	0.180	0.125	30	0	70
WXC 7190	0.437	0.190	0.125	30	0	70
WXC 7195	0.437	0.195	0.125	30	0	70

*Sold in Packs of 250 Pieces*

## WDC RIGHT STYLE - SAW TIPS



CW Right Style

STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WDCR 7165	0.312	0.165	0.093	30	0	60
WDCR 7185	0.312	0.185	0.093	30	0	60
WDCR 7200	0.312	0.200	0.093	30	0	60
WDCR 7215	0.312	0.215	0.093	30	0	60
WDCR 7250	0.312	0.250	0.093	30	0	60

*Sold in Packs of 250 Pieces*

## WDC LEFT STYLE - SAW TIPS



CW Left Style

STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WDCL 7165	0.312	0.165	0.093	30	0	60
WDCL 7185	0.312	0.185	0.093	30	0	60
WDCL 7200	0.312	0.200	0.093	30	0	60
WDCL 7215	0.312	0.215	0.093	30	0	60
WDCL 7250	0.312	0.250	0.093	30	0	60

*Sold in Packs of 250 Pieces*

## WGC RIGHT STYLE - SAW TIPS



CW Right Style

STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WGCR 7230	0.375	0.230	0.125	30	0	60
WGCR 7250	0.375	0.250	0.125	30	0	60
WGCR 7265	0.375	0.265	0.125	30	0	60
WGCR 7270	0.375	0.270	0.125	30	0	60

*Sold in Packs of 250 Pieces*

## WGC LEFT STYLE - SAW TIPS

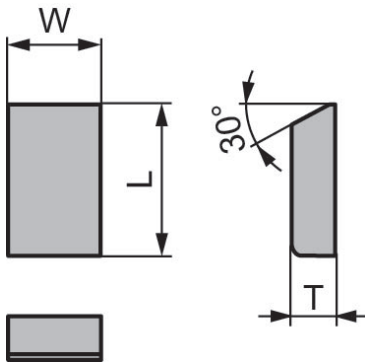


CW Left Style

STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WGCL 7230	0.375	0.230	0.125	30	0	60
WGCL 7250	0.375	0.250	0.125	30	0	60
WGCL 7265	0.375	0.265	0.125	30	0	60
WGCL 7270	0.375	0.270	0.125	30	0	60

*Sold in Packs of 250 Pieces*

## WA STYLE - SAW TIPS

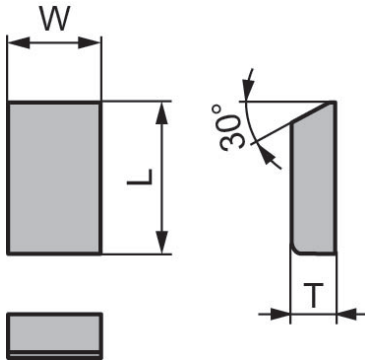


STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WA 7085	0.250	0.085	0.062	30	0	0
WA 7091	0.250	0.091	0.062	30	0	0
WA 7105	0.250	0.105	0.062	30	0	0
WA 7110	0.250	0.110	0.062	30	0	0
WA 7115	0.250	0.115	0.062	30	0	0
WA 7130	0.250	0.130	0.062	30	0	0
WA 7150	0.250	0.150	0.062	30	0	0
WA 7160	0.250	0.160	0.062	30	0	0
WA 7180	0.250	0.180	0.062	30	0	0
WA 7200	0.250	0.200	0.062	30	0	0
WA 7215	0.250	0.215	0.062	30	0	0

*Sold in Packs of 250 Pieces*

Tips in-stock can be pretinned within one week.  
All tips braze ready.

## WB STYLE - SAW TIPS

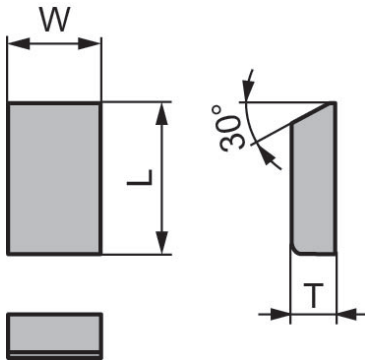


STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WB 7100	0.281	0.100	0.078	30	0	0
WB 7119	0.281	0.119	0.078	30	0	0
WB 7120	0.281	0.120	0.078	30	0	0
WB 7135	0.281	0.135	0.078	30	0	0
WB 7150	0.281	0.150	0.078	30	0	0
WB 7165	0.281	0.165	0.078	30	0	0
WB 7180	0.281	0.180	0.078	30	0	0
WB 7195	0.281	0.195	0.078	30	0	0
WB 7215	0.281	0.215	0.078	30	0	0

*Sold in Packs of 250 Pieces*

Tips in-stock can be pretinned within one week.  
All tips braze ready.

## WC STYLE - SAW TIPS

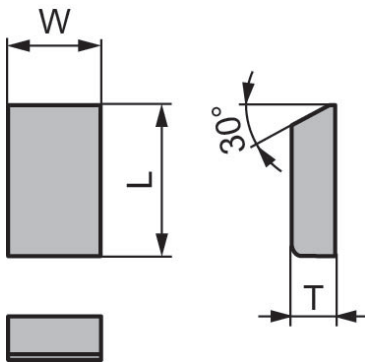


STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WC 7100	0.281	0.100	0.093	30	0	0
WC 7135	0.281	0.135	0.093	30	0	0
WC 7150	0.281	0.150	0.093	30	0	0
WC 7165	0.281	0.165	0.093	30	0	0
WC 7185	0.281	0.185	0.093	30	0	0

*Sold in Packs of 250 Pieces*

Tips in-stock can be pretinned within one week.  
All tips braze ready.

## WD STYLE - SAW TIPS



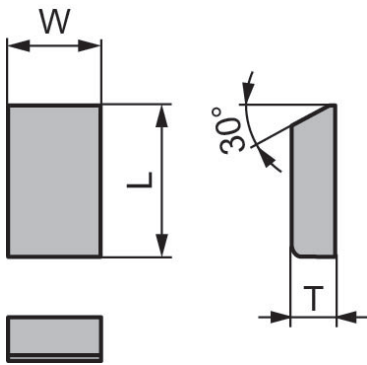
STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WD 7115	0.312	0.115	0.093	30	0	0
WD 7120	0.312	0.120	0.093	30	0	0
WD 7135	0.312	0.135	0.093	30	0	0
WD 7140	0.312	0.140	0.093	30	0	0
WD 7150	0.312	0.150	0.093	30	0	0
WD 7165	0.312	0.165	0.093	30	0	0
WD 7170	0.312	0.170	0.093	30	0	0
WD 7175	0.312	0.175	0.093	30	0	0
WD 7180	0.312	0.180	0.093	30	0	0
WD 7185	0.312	0.185	0.093	30	0	0
WD 7200	0.312	0.200	0.093	30	0	0
WD 7215	0.312	0.215	0.093	30	0	0
WD 7230	0.312	0.230	0.093	30	0	0
WD 7240	0.312	0.240	0.093	30	0	0
WD 7250	0.312	0.250	0.093	30	0	0
WD 7281	0.312	0.281	0.093	30	0	0
WD 7312	0.312	0.312	0.093	30	0	0
WD 7375	0.312	0.375	0.093	30	0	0

*Sold in Packs of 250 Pieces*

Tips in-stock can be pretinned within one week.  
All tips braze ready.



## WE STYLE - SAW TIPS

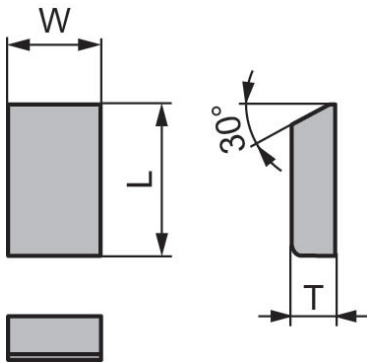


Tips in-stock can be pretinned within one week.  
All tips braze ready.

STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WE 7085	0.375	0.085	0.093	30	0	0
WE 7135	0.375	0.135	0.093	30	0	0
WE 7150	0.375	0.150	0.093	30	0	0
WE 7165	0.375	0.165	0.093	30	0	0
WE 7185	0.375	0.185	0.093	30	0	0
WE 7200	0.375	0.200	0.093	30	0	0
WE 7215	0.375	0.215	0.093	30	0	0
WE 7225	0.375	0.225	0.093	30	0	0
WE 7235	0.375	0.235	0.093	30	0	0
WE 7250	0.375	0.250	0.093	30	0	0
WE 7265	0.375	0.265	0.093	30	0	0
WE 7281	0.375	0.281	0.093	30	0	0
WE 7312	0.375	0.312	0.093	30	0	0
WE 7350	0.375	0.350	0.093	30	0	0
WE 7375	0.375	0.375	0.093	30	0	0
WE 7400	0.375	0.400	0.093	30	0	0

*Sold in Packs of 250 Pieces*

## WF STYLE - SAW TIPS

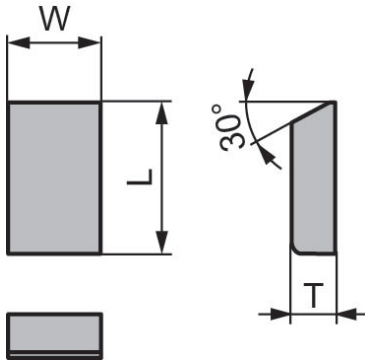


Tips in-stock can be pretinned within one week.  
All tips braze ready.

STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WF 7120	0.500	0.120	0.125	35	0	0
WF 7150	0.500	0.150	0.125	35	0	0
WF 7160	0.500	0.160	0.125	35	0	0
WF 7165	0.500	0.165	0.125	35	0	0
WF 7170	0.500	0.170	0.125	35	0	0
WF 7180	0.500	0.180	0.125	35	0	0
WF 7190	0.500	0.190	0.125	35	0	0
WF 7200	0.500	0.200	0.125	35	0	0
WF 7210	0.500	0.210	0.125	35	0	0
WF 7215	0.500	0.215	0.125	35	0	0
WF 7220	0.500	0.220	0.125	35	0	0
WF 7230	0.500	0.230	0.125	35	0	0
WF 7240	0.500	0.240	0.125	35	0	0
WF 7250	0.500	0.250	0.125	35	0	0
WF 7260	0.500	0.260	0.125	35	0	0
WF 7265	0.500	0.265	0.125	35	0	0
WF 7270	0.500	0.270	0.125	35	0	0
WF 7275	0.500	0.275	0.125	35	0	0
WF 7280	0.500	0.280	0.125	35	0	0
WF 7285	0.500	0.285	0.125	35	0	0
WF 7290	0.500	0.290	0.125	35	0	0
WF 7300	0.500	0.300	0.125	35	0	0
WF 7310	0.500	0.310	0.125	35	0	0
WF 7312	0.500	0.312	0.125	35	0	0
WF 7320	0.500	0.320	0.125	35	0	0
WF 7330	0.500	0.330	0.125	35	0	0
WF 7350	0.500	0.350	0.125	35	0	0
WF 7375	0.500	0.375	0.125	35	0	0
WF 7400	0.500	0.400	0.125	35	0	0
WF 7437	0.500	0.437	0.125	35	0	0
WF 7500	0.500	0.500	0.125	35	0	0
WF 7530	0.500	0.530	0.125	35	0	0
WF 7562	0.500	0.562	0.125	35	0	0
WF 7625	0.500	0.625	0.125	35	0	0
WF 7750	0.500	0.750	0.125	35	0	0

*Sold in Packs of 250 Pieces*

## WG STYLE - SAW TIPS

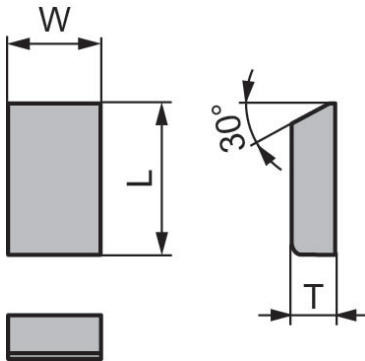


Tips in-stock can be pretinned within one week.  
All tips braze ready.

STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WG 7150	0.375	0.150	0.125	30	0	0
WG 7165	0.375	0.165	0.125	30	0	0
WG 7180	0.375	0.180	0.125	30	0	0
WG 7190	0.375	0.190	0.125	30	0	0
WG 7197	0.375	0.197	0.125	30	0	0
WG 7200	0.375	0.200	0.125	30	0	0
WG 7215	0.375	0.215	0.125	30	0	0
WG 7220	0.375	0.220	0.125	30	0	0
WG 7230	0.375	0.230	0.125	30	0	0
WG 7240	0.375	0.240	0.125	30	0	0
WG 7250	0.375	0.250	0.125	30	0	0
WG 7265	0.375	0.265	0.125	30	0	0
WG 7275	0.375	0.275	0.125	30	0	0
WG 7280	0.375	0.280	0.125	30	0	0
WG 7300	0.375	0.300	0.125	30	0	0
WG 7312	0.375	0.312	0.125	30	0	0
WG 7335	0.375	0.335	0.125	30	0	0
WG 7350	0.375	0.350	0.125	30	0	0
WG 7375	0.375	0.375	0.125	30	0	0
WG 7400	0.375	0.400	0.125	30	0	0
WG 7437	0.375	0.437	0.125	30	0	0
WG 7460	0.375	0.460	0.125	30	0	0
WG 7500	0.375	0.500	0.125	30	0	0
WG 7530	0.375	0.530	0.125	30	0	0
WG 7560	0.375	0.560	0.125	30	0	0
WG 7625	0.375	0.625	0.125	30	0	0
WG 7687	0.375	0.687	0.125	30	0	0

Sold in Packs of 250 Pieces

## WQ STYLE - SAW TIPS

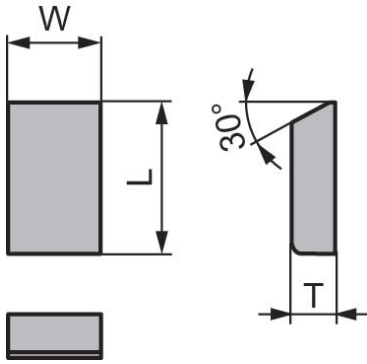


Tips in-stock can be pretinned within one week.  
All tips braze ready.

STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WQ 7200	0.375	0.200	0.156	30	0	0
WQ 7265	0.375	0.265	0.156	30	0	0
WQ 7300	0.375	0.300	0.156	30	0	0
WQ 7335	0.375	0.335	0.156	30	0	0
WQ 7375	0.375	0.375	0.156	30	0	0
WQ 7400	0.375	0.400	0.156	30	0	0
WQ 7460	0.375	0.460	0.156	30	0	0
WQ 7500	0.375	0.500	0.156	30	0	0

Sold in Packs of 250 Pieces

## WH STYLE - SAW TIPS



STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WH 7197	0.344	0.197	0.125	30	0	0
WH 7215	0.344	0.215	0.125	30	0	0
WH 7230	0.344	0.230	0.125	30	0	0
WH 7236	0.344	0.236	0.125	30	0	0
WH 7250	0.344	0.250	0.125	30	0	0

*Sold in Packs of 250 Pieces*

Tips in-stock can be pretinned within one week.  
All tips braze ready.

# INDEX TABLE (ALPHA NUMERIC LISTING)

BPD5303LH	93	FBL125-3	75	PK7036	150	PKC7081	151
BPD5303RH	93	FBL125-3A2	75	PK7038	150	PKC7083	151
BPD5304LH	93	FBL125-3A5	75	PK7040	150	PKC7085	151
BPD5304RH	93	FBL157-3	75	PK7042	150	PKC7087	150
BPD5305LH	93	FBL157-3A2	75	PK7044	150	PKC7089	150
BPD5305RH	93	FBL157-3A5	75	PK7046	150	PKC7091	150
BPD53032LH	93	FBL187-3	75	PK7048	150	PKC7093	150
BPD53032RH	93	FBL187-3A2	75	PK7050	150	PKC7095	150
BPD53035LH	93	FBL187-3A5	75	PK7052	150	PKC7099	150
BPD53035RH	93	FBL250-3	75	PK7054	150	PKC7101	150
BPD53045LH	93	FBL250-3A2	75	PK7056	150	PKC7103	151
BPD53045RH	93	FBL250-3A5	75	PK7058	150	PKC7105	150
CD4502LH	92	HHUD539	15	PK7060	150	PKC7109	151
CD4502RH	92	HHUD545	15	PK7062	150	PKC7111	150
CD53025LH	92	HHUD550	15	PK7064	150	PKC7113	150
CD53025RH	92	HHUD551	15	PK7066	150	PKC7115	150
CD53028LH	92	HHUD555	15	PK7068	150	PKC7117	150
CD53028RH	92	HHUD558	15	PK7070	150	PKC7119	150
CHDUD539MAX	16	HHUD565	15	PK7072	150	PKC7121	150
CHDUD547MAX	16	HHUD566	15	PK7074	151	PKC7123	150
CHDUD550MAX	16	HHUD750	16	PK7076	150	PKC7127	150
CHDUD551MAX	16	HHUD751	16	PK7078	150	QCDA1001RH	94
CHDUD555MAX	16	HHUD754	16	PK7080	151	QCDA1002LH	94
CHDUD558MAX	16	HHUD758	16	PK7082	151	QCDA1003RH	94
CHDUD559MAX	16	HHUD766	16	PK7084	151	QCDA1004LH	94
CHDUD8350	14	HMDUD445	15	PK7086	150	QCDA1005RH	94
CHDUD8375	14	HMDUD539	15	PK7088	150	QCDA1006LH	94
CMDUD350	14	HMDUD550	15	PK7090	150	QCDA8001RH	94
CMDUD375	14	HMDUD551	15	PK7092	150	QCDA8002LH	94
CSH20510LH	95	HMDUD551-1	15	PK7094	150	QCDA8003RH	94
CSH20510RH	95	HMDUD554	15	PK7096	150	QCDA8004LH	94
CSH201112LH	95	HMDUD555	15	PK7098	150	QCDA8005RH	94
CSH201112RH	95	HMDUD557	15	PK7100	150	QCDA8006LH	94
CSP1604LH	95	HMDUD558	15	PK7102	151	QCDA-Biesse®	95
CSP1604RH	95	HMDUD565	15	PK7104	150	QCDA-Morbideli®	95
CSP1605LH	95	HMDUD566	15	PK7106	150	QCDA-screw	95
CSP1605RH	95	HMDUD750	15	PK7108	151	QCHDA250	95
CSP1606LH	95	HMDUD751*	15	PK7110	150	RB41250	121
CSP1606RH	95	HMDUD751A	15	PK7112	150	RB41250	129
CSP1607LH	95	HMDUD755	15	PK7114	150	SAR250	79
CSP1607RH	95	HMDUD756*	15	PK7116	150	SAR375	79
CSP1808LH	95	HMDUD795	15	PK7118	150	SAR500	79
CSP1808RH	95	HRD202MD	16	PK7120	150	SAR500-38*	79
CSP1809LH	95	HRD218MD	16	PK7122	150	SAR500-1716	62
CSP1809RH	95	HRD220MD	16	PK7124	150	SAR500-1716	76
CSP2010LH	95	HRD237MD	16	PK7126	150	SAR500-1716	79
CSP2010RH	95	HRD255MD	16	PKC7001	150	SAR500WS	67
CSP2012LH	95	HRD260MD	16	PKC7003	150	SARF250	80
CSP2012RH	95	HRU103MD	16	PKC7007	150	SARF250-XL3	80
CSP16250LH	95	HRU114MD	16	PKC7009	150	SARF500	80
CSP16250RH	95	HRU120MD	16	PKC7013	150	SARF500-XL3	80
DA3502	93	HRU137MD	16	PKC7019	150	SARJM250	80
DA3503	93	HRU155MD	16	PKC7021	150	SARJM375	80
DA3504	93	HRU160MD	16	PKC7023	150	SARJM500	80
DA3505	93	PCO-14	68	PKC7025	150	SBB120	15
DA35025	93	PK7000	150	PKC7027	150	SBB220	15
DA35028	93	PK7002	150	PKC7029	150	SBB320	15
DA35032	93	PK7004	150	PKC7037	150	SBE100	78
DA35035	93	PK7006	150	PKC7041	150	SBE105	78
DA35045	93	PK7008	150	PKC7043	150	SBE106	78
DACSP screw	93	PK7010	150	PKC7045	150	SBE107	78
DOUAL500	20	PK7012	150	PKC7049	150	SBE110	78
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DOUAL513	20	PK7018	150	PKC7057	150	SBE115-ES	78
DOUAL520	20	PK7020	150	PKC7059	150	SBE117	78
DOUAL523	20	PK7022	150	PKC7061	150	SBE119	78
FBL062-3	75	PK7024	150	PKC7063	150	SBE120	78
FBL062-3A2	75	PK7026	150	PKC7067	150	SBE121	78
FBL062-3A5	75	PK7028	150	PKC7073	150	SBE121R	78
FBL093-3	75	PK7030	151	PKC7075	151	SBE122	78
FBL093-3A2	75	PK7032	150	PKC7076	150	SBE123	78
FBL093-3A5	75	PK7034	150	PKC7079	150	SBE124	78

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SBE125	62	SCF200	10	SDR415	86	SE1032-38	80
SBE125	67	SCF200-BLK	10	SDR424	86	SE1032A	37
SBE125	76	SCF200DB	10	SDR425	86	SE1033	37
SBE125	78	SCF203	10	SDR430	86	SE1033A	36
SBE127	78	SCF205*	10	SDR440	86	SE1035	36
SBE128	78	SCF205-25*	10	SDR-DRILL	86	SE1036	36
SBE129	78	SCFB100	13	SDR-SCREW	86	SE1039	37
SBE130	78	SCFB110	13	SDR-SCREW	87	SE1040	37
SBE135	78	SCFB120	13	SDS105	78	SE1041	37
SBE138	78	SCFB130	13	SDS115	78	SE1043	37
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SBE145	78	SCFB230	11	SE50TH	148	SE1051	36
SBE147	78	SCHF240	10	SE54-212-012	149	SE1052	36
SBE149	78	SCHF242	10	SE061BT353276	142	SE1054	36
SBE150	78	SCHF244	10	SE200TH	148	SE1055	36
SBE150R	78	SCN118	11	SE300TH	148	SE1055A	36
SBE152	78	SCN135	11	SE348-14	80	SE1055C	36
SBE153	78	SCN155	11	SE348-38	80	SE1058*	38
SBE154	78	SCOMUD780	14	SE540-14	80	SE1058LH	36
SBE155	78	SCRS250	11	SE540-38	80	SE1059*	38
SBE160	78	SCRV271	11	SE750-19	145	SE1060*	38
SBE190	78	SCRV273	11	SE750-19	145	SE1060LH	36
SBE193	78	SCRV275	11	SE750TBU	121	SE1061*	38
SBE195	78	SCRV275*	45	SE751	68	SE1062*	38
SBE197	78	SCRV277	11	SE753	68	SE1062LH	36
SBE200	79	SCRV277*	45	SE755	68	SE1063*	38
SBESS205*	78	SCRV279	11	SE756	68	SE1064*	38
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SBESS220*	78	SCVG260*	47	SE759	68	SE1066	38
SBESS225*	78	SCVG264	10	SE918	95	SE1066LH	36
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SBNU125	11	SCVG264-212	10	SE924	95	SE1069	38
SBNU250	11	SCVG322	11	SE927	95	SE1069DS	38
SBNU316	11	SCVG325	11	SE930	95	SE1069LH	36
SBNU375	11	SCVG352	11	SE940	95	SE1070	38
SBNU500	11	SCVG355	11	SE942	95	SE1071	38
SBNU750	11	SCVG455F*	11	SE944	95	SE1072	38
SBPT1	87	SCVP5805LH	93	SE946	95	SE1072LH	36
SBPT1F	87	SCVP5805RH	93	SE1000TBU	121	SE1073	38
SBPT1T	87	SCVP5808LH	93	SE1004	36	SE1073M	38
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SC1690L*	49	SCVP7005RH	93	SE1011	37	SE1075A	38
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SCB220	10	SCVP7008RH	93	SE1013	37	SE1077	38
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SCBP5703LH	93	SDK560	87	SE1016-01	37	SE1082	38
SCBP5703RH	93	SDK565	87	SE1018	37	SE1083	38
SCBP5704LH	93	SDR187-4	75	SE1018A	37	SE1083A	38
SCBP5704RH	93	SDR187-6	75	SE1019	37	SE1084	38
SCBP5704RH	93	SDR250-4	75	SE1021	37	SE1085	38
SCBP5705LH	93	SDR250-6	75	SE1022	37	SE1085LH	36
SCBP5705RH	93	SDR290	86	SE1023	37	SE1086	38
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SCBP7004LH	93	SDR310-QCF	86	SE1025A	37	SE1092	38
SCBP7004RH	93	SDR315	86	SE1025B	37	SE1093	38
SCBP7005LH	93	SDR320	86	SE1025C	37	SE1094	38
SCBP7005RH	93	SDR320-QCF	86	SE1026	37	SE1095	38
SCBP7006LH	93	SDR325	86	SE1026A	37	SE1095A	38
SCBP7006RH	93	SDR330	86	SE1027	37	SE1095B	38
SCBP7008LH	93	SDR340	86	SE1027A	37	SE1096	38
SCBP7008RH	93	SDR350	86	SE1027B	37	SE1096A	38
SCBP7010LH	93	SDR360	86	SE1027C	37	SE1097	38
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SE04240-532	137	SE04621	140	SE6001	65	SE7016RH	89
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SE04603-25	148	SE5703LH	88	SE6100	85	SE7708LH	89
SE04604-32	148	SE5703RH	88	SE6100F	85	SE7708RH	89
SE04605-40	148	SE5704LH	88	SE06106-slotnut	141	SE07710	147
SE04610	141	SE5704RH	88	SE06106-W	141	SE7710LH	89
SE04613	140	SE5705LH	88	SE06107	141	SE7710RH	89
SE04613	141	SE5705RH	88	SE06107-slotnut	141	SE07711	147
SE04613	142	SE5706LH	88	SE06108-2.5	141	SE7712LH	89
SE04613	142	SE5706RH	88	SE06108-2.5-slotnut	141	SE7712RH	89
SE04613	142	SE5707LH	88	SE06109	141	SE07801	145
SE04614	140	SE5707RH	88	SE06110-W-60	141	SE07803	145
SE04614	141	SE5708LH	88	SE06111	141	SE07805	145
SE04614	141	SE5708RH	88	SE06111-90	141	SE07806	145
SE04614	141	SE5709LH	88	SE06112	141	SE07808	145
SE04614	141	SE5709RH	88	SE06113	141	SE07810	145
SE04614	141	SE5710	64	SE06113-W-60	141	SE07812	145
SE04614	141	SE5710LH	88	SE06113-W-60-A*	141	SE07814	145
SE04615	140	SE5710RH	88	SE06113-W-60L	141	SE9128ATB	77
SE04615	141	SE5711LH	88	SE06113-W-90	141	SE9140ATB	77
SE04615	141	SE5711RH	88	SE06114	141	SE9150	77
SE04615	141	SE5712LH	88	SE06115	141	SE9160ATB	77
SE04615	141	SE5712RH	88	SE6390	80	SE9160TCG	77
SE04615	142	SE5713LH	88	SE6395	80	SE9180ATB	77
SE04615	142	SE5713RH	88	SE6400	80	SE9240ATB	77
SE04616	140	SE5714LH	88	SE6401	80	SE9260ATB	77
SE04616	141	SE5714RH	88	SE6402	80	SE9260TCGN*	77
SE04616	141	SE5715LH	88	SE6403	80	SE9280ATB	77
SE04616	141	SE5715RH	88	SE7003LH	89	SE9296ATB	77
SE04616	141	SE5716LH	88	SE7003RH	89	SE9500	81
SE04616	141	SE5716RH	88	SE7004LH	89	SE9600	81
SE04616	141	SE5717LH	88	SE7004RH	89	SE9700	81
SE04616	141	SE5717RH	88	SE7005LH	89	SE9840ATB	77
SE04616	141	SE5718LH	88	SE7005LHS30	90	SE9860ATB	77
SE04616	141	SE5718RH	88	SE7005RH	89	SE10400	99
SE04616	141	SE5719LH	88	SE7005RHS30	90	SE10401	99
SE04616	141	SE5719RH	88	SE7006LH	89	SE10402	99
SE04616	141	SE5720	64	SE7006RH	89	SE10404	99
SE04616	141	SE5720LH	88	SE7007LH	89	SE10406	99

SE10408	99	SE13511	102	SE19112L	104	SE20605	107
SE10409	99	SE13513	102	SE19113	104	SE20605HS	107
SE10410	99	SE13515	44	SE19114	104	SE20606	107
SE10411	99	SE13531	44	SE19115	104	SE20606CT	106
SE10412	99	SE13562	44	SE19116	104	SE20606HS	107
SE10413	99	SE13601	102	SE19201	103	SE20607	107
SE11125R	114	SE13603	102	SE19202	103	SE20607CT	106
SE11156R	114	SE13605	102	SE19203	103	SE20607HS	107
SE11187L	114	SE13607	103	SE19204	103	SE20608	107
SE11187R	114	SE13609	103	SE19206	103	SE20608HS	107
SE11218L	114	SE13611	103	SE19207	103	SE20609	107
SE11218R	114	SE13613	103	SE19208	103	SE20609CT	106
SE11250L	114	SE13625	44	SE19209	103	SE20609HS	107
SE11250R	114	SE13640	44	SE19210	103	SE20610	107
SE11281L	114	SE13656	44	SE19995	105	SE20610HS	107
SE11281R	114	SE13687	44	SE20100	106	SE20611	107
SE11312L	114	SE13701	103	SE20101	106	SE20611CT	106
SE11312R	114	SE13702	103	SE20102	106	SE20611HS	107
SE11375L	114	SE13703	103	SE20103	106	SE20612	107
SE11375R	114	SE13704	103	SE20104	106	SE20612HS	107
SE11393L	114	SE13705	103	SE20105	106	SE20613	107
SE11393R	114	SE13706	103	SE20106	106	SE20613CT	106
SE11437L	114	SE13707	103	SE20107	106	SE20613HS	107
SE11437R	114	SE13709	103	SE20108	106	SE20614	107
SE11500L	114	SE13711	103	SE20109	106	SE20614HS	107
SE11500R	114	SE13713	103	SE20110	106	SE20615	107
SE12000-CMS	141	SE13719	44	SE20111	106	SE20615CT	106
SE12040	141	SE13750	44	SE20112	106	SE20615HS	107
SE12213-W-50	141	SE13764	44	SE20113	106	SE20616	107
SE12213-W-50-L	141	SE13781	44	SE20114	106	SE20616HS	107
SE12213-W-63	141	SE13805	103	SE20115	106	SE20617	107
SE12213-W-63-L	141	SE13807	103	SE20116	106	SE20617HS	107
SE12213-W-90	141	SE13809	103	SE20117	106	SE20618	107
SE12215-W-57	141	SE13811	103	SE20118	106	SE20618HS	107
SE12261-W	141	SE13812	44	SE20119	106	SE20701	105
SE12407-W	141	SE13813	103	SE20120	106	SE20703	105
SE12700-40	146	SE13875	44	SE20121	106	SE20704	105
SE12700-55	146	SE13905	103	SE20122	106	SE20706	105
SE12700-80	146	SE13907	103	SE20123	106	SE20707	105
SE12700-100	146	SE13909	103	SE20124	106	SE20708	105
SE13001	145	SE13911	103	SE20125	106	SE20709	105
SE13001	145	SE13913	103	SE20126	106	SE20710	105
SE13001-45	145	SE13937	44	SE20128	106	SE21225	139
SE13001-45	145	SE14400	99	SE20201HS	106	SE21232	139
SE13001M	101	SE14401	99	SE20202HS	106	SE21240	139
SE13002	101	SE14402	99	SE20203HS	106	SE22220	135
SE13003	145	SE14403	99	SE20305HS	105	SE22220	140
SE13003M	101	SE17105-008001	142	SE20307CT	105	SE23108	145
SE13004	101	SE17105-008002	142	SE20307HS	105	SE23111	145
SE13005	101	SE17906-2	149	SE20308CT	105	SE23116	145
SE13006	101	SE18402	102	SE20308HS	105	SE23120	145
SE13007	101	SE18405	102	SE20309HS	105	SE23125	145
SE13009	101	SE18407	102	SE20310CT	105	SE023949	157
SE13010	101	SE18408	102	SE20310HS	105	SE023957	157
SE13019	145	SE18409	102	SE20311HS	105	SE023960	157
SE13019	145	SE18410	102	SE20312CT	105	SE023968	157
SE13101	101	SE18412	102	SE20312HS	105	SE023971	157
SE13102	101	SE18800	101	SE20313HS	105	SE023979	157
SE13103	101	SE18801	101	SE20314CT	105	SE023982	157
SE13104	101	SE18802	101	SE20314HS	105	SE023990	157
SE13201L*	103	SE18803	101	SE20315CT	105	SE023993	157
SE13201R	103	SE19100	104	SE20315HS	105	SE024001	157
SE13202L*	103	SE19101	104	SE20316HS	105	SE024004	157
SE13202R	103	SE19101L	104	SE20317CT	105	SE024012	157
SE13301L*	103	SE19102	104	SE20317HS	105	SE024016	157
SE13301R	103	SE19103	104	SE20318HS	105	SE024024	157
SE13302L*	103	SE19103L	104	SE20319HS	105	SE024027	157
SE13302R	103	SE19104	104	SE20320HS	105	SE024035	157
SE13500	44	SE19105	104	SE20321HS	105	SE024038	157
SE13501	102	SE19105L	104	SE20601	107	SE024046	157
SE13502	102	SE19106	104	SE20601CT	106	SE024049	157
SE13503	102	SE19107	104	SE20601HS	107	SE024057	157
SE13504	102	SE19107L	104	SE20602	107	SE024060	157
SE13505	44	SE19108	104	SE20602CT	106	SE024068	157
SE13505	102	SE19109	104	SE20602HS	107	SE024071	157
SE13506	102	SE19110	104	SE20603	107	SE024079	157
SE13507	102	SE19110L	104	SE20604	107	SE024082	157
SE13508	102	SE19111	104	SE20604CT	106	SE024090	157
SE13509	102	SE19112	104	SE20604HS	107	SE024093	157

SE024101	157	SE29101L	109	SE29214F	110	SE31343	111
SE024104	157	SE29102	109	SE29215	109	SE31359	111
SE024112	157	SE29102-CAST	68	SE29215F	110	SE31374-60	142
SE024115	157	SE29102-CAST-VPT	68	SE29216	109	SE31375	111
SE024123	157	SE29102L	109	SE29216F	110	SE32001HS	113
SE024126	157	SE29103	109	SE29217	109	SE32003HS	113
SE024134	157	SE29103L	109	SE29217F	110	SE32004HS	113
SE024137	157	SE29104	109	SE29218	109	SE32005HS	113
SE024145	157	SE29104L	109	SE29218F	110	SE32006HS	113
SE024148	157	SE29105	109	SE29219	109	SE32007HS	113
SE024156	157	SE29105L	109	SE29219F	110	SE32008HS	113
SE024159	157	SE29106	109	SE29220	109	SE32009HS	113
SE024167	157	SE29106L	109	SE29220F	110	SE32011HS	113
SE024170	157	SE29107	109	SE29221	109	SE32012HS	113
SE024178	157	SE29107L	109	SE29221F	110	SE33108	145
SE29001	107	SE29108	109	SE29222	109	SE33111	145
SE29002	107	SE29108L	109	SE29222F	110	SE33116	145
SE29002L	108	SE29109	109	SE29223	109	SE33120	145
SE29003	107	SE29109L	109	SE29223F	110	SE33125	145
SE29003L	108	SE29110	109	SE29224	109	SE33125-L	145
SE29004	107	SE29110L	109	SE29224F	110	SE40050	142
SE29004L	108	SE29111	109	SE29225	109	SE41025	142
SE29005	107	SE29111L	109	SE29225F	110	SE41060	146
SE29005L	108	SE29112	109	SE29501	108	SE41080-3H	146
SE29006	107	SE29112L	109	SE29502	108	SE41085	146
SE29006L	108	SE29113	109	SE29503	108	SE41087	146
SE29007	107	SE29113L	109	SE29504	108	SE043924	157
SE29007L	108	SE29114	109	SE29505	108	SE043927	157
SE29008	107	SE29114L	109	SE29506	108	SE043931	157
SE29008L	108	SE29115	109	SE29507	108	SE043933	157
SE29009	107	SE29115L	109	SE29508	108	SE043934	157
SE29009L	108	SE29116	109	SE29509	108	SE043935	157
SE29010	107	SE29116L	109	SE29510	108	SE043936	157
SE29010L	108	SE29117	109	SE29511	108	SE043937	157
SE29011	107	SE29117L	109	SE29512	108	SE043938	157
SE29011L	108	SE29118	109	SE29513	108	SE043939	157
SE29012	107	SE29118L	109	SE29827	149	SE043940	157
SE29012L	108	SE29119	109	SE29828	149	SE043941	157
SE29013	107	SE29119L	109	SE30000	142	SE043942	157
SE29013L	108	SE29120	109	SE30001	142	SE043943	157
SE29014	107	SE29120L	109	SE30002	142	SE043944	157
SE29014L	108	SE29121	109	SE30005	142	SE043945	157
SE29015	107	SE29121L	109	SE30078	110	SE043946	157
SE29015L	108	SE29122	109	SE30093	110	SE043947	157
SE29016	107	SE29122L	109	SE30109	110	SE043948	157
SE29016L	108	SE29123	109	SE30125	110	SE043949	157
SE29017	107	SE29123L	109	SE30140	110	SE043950	157
SE29017L	108	SE29124	109	SE30156	110	SE043951	157
SE29018	107	SE29124L	109	SE30171	110	SE043952	157
SE29018L	108	SE29125	109	SE30187	110	SE043953	157
SE29019	107	SE29125L	109	SE30203	110	SE043954	157
SE29019L	108	SE29133	109	SE30218	110	SE043955	157
SE29020	107	SE29201	109	SE30234	110	SE043956	157
SE29020L	108	SE29201F	110	SE30250	110	SE043957	157
SE29021	107	SE29202	109	SE30265	110	SE043958	157
SE29021L	108	SE29202F	110	SE30281	110	SE043959	157
SE29022	107	SE29203	109	SE30296	110	SE043961	157
SE29022L	108	SE29203F	110	SE30312	110	SE043962	157
SE29023	107	SE29204	109	SE30328	110	SE043965	157
SE29023L	108	SE29204F	110	SE30343	110	SE043966	157
SE29024	107	SE29205	109	SE30359	110	SE043969	157
SE29024L	108	SE29205F	110	SE30375	110	SE043970	157
SE29025	107	SE29206	109	SE31078	111	SE045837	157
SE29025L	108	SE29206F	110	SE31093	111	SE045838	157
SE29026	107	SE29207	109	SE31109	111	SE045839	157
SE29026L	108	SE29207F	110	SE31125	111	SE46111	139
SE29027	107	SE29208	109	SE31140	111	SE46116	139
SE29027L	108	SE29208F	110	SE31156	111	SE46120	139
SE29028	107	SE29209	109	SE31171	111	SE46125	139
SE29028L	108	SE29209F	110	SE31187	111	SE46132	139
SE29029	107	SE29210	109	SE31203	111	SE46140	139
SE29029L	108	SE29210F	110	SE31218	111	SE50001	142
SE29030	107	SE29211	109	SE31234	111	SE50134	99
SE29030L	108	SE29211F	110	SE31250	111	SE50135	99
SE29031	107	SE29212	109	SE31265	111	SE50136HS	100
SE29031L	108	SE29212F	110	SE31281	111	SE50137HS	100
SE29032	107	SE29213	109	SE31296	111	SE50138HS	100
SE29032L	108	SE29213F	110	SE31312	111	SE50201	99
SE29101	109	SE29214	109	SE31328	111	SE50202	99

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SE50206	99	SE055473	155	SE70055RH	89	SE94636	116
SE50207	99	SE055474	155	SE70065LH	89	SE94640	116
SE50209	99	SE055475	155	SE70065RH	89	SE94644	116
SE50211	99	SE055476	155	SE70067LH	89	SE94648	116
SE50212	99	SE055490	155	SE70067RH	89	SE94652	116
SE50213	100	SE055491	155	SE70071LH	89	SE94656	116
SE50214	100	SE055493	155	SE70071RH	89	SE94660	116
SE50215	100	SE055496	153	SE70075LH	89	SE94664	116
SE50216	99	SE055497	153	SE70075RH	89	SE94708	116
SE50217	99	SE055498	153	SE70082LH	89	SE94716	116
SE50218	99	SE055499	153	SE70082RH	89	SE94724	116
SE50219	99	SE055500	153	SE70085LH	89	SE94732	116
SE50220	99	SE055501	153	SE70085RH	89	SE96401	113
SE50221	99	SE055502	156	SE70104LH	89	SE96401HX	113
SE50222	99	SE055503	156	SE70104RH	89	SE96402	113
SE50223	99	SE055504	156	SE70165LH	89	SE96403	113
SE50224	99	SE055505	156	SE70165RH	89	SE96404	113
SE50225	99	SE055506	156	SE70187LH	89	SE100297	152
SE50226	99	SE055507	156	SE70187RH	89	SE100298	155
SE50227	99	SE055508	156	SE70250LH	89	SE100343	155
SE50228	99	SE055509	154	SE70250RH	89	SE100348	152
SE50701HS	100	SE055510	154	SE70375LH	89	SE100349	152
SE50702HS	100	SE055511	154	SE70375RH	89	SE100350	152
SE50703HS	100	SE055512	154	SE70438LH	89	SE100351	152
SE50704	100	SE055513	154	SE70438RH	89	SE100352	152
SE50705	100	SE055514	154	SE70500LH	89	SE100353	152
SE50706	100	SE055515	154	SE70500RH	89	SE100354	152
SE50801HS	100	SE055516	154	SE70562LH	89	SE100355	152
SE50802HS	100	SE055517	154	SE70562RH	89	SE100356	152
SE50803HS	100	SE055518	154	SE70625LH	89	SE100357	152
SE50804	100	SE055519	154	SE70625RH	89	SE100358	152
SE50805	100	SE055625	154	SE76401	113	SE100359	152
SE50806	100	SE56401	113	SE76401HX	113	SE100360	152
SE054752	153	SE56401HX	113	SE76402	113	SE100361	152
SE054753	156	SE56402	113	SE76403	113	SE100362	152
SE55001	115	SE56402	113	SE76404	113	SE100363	152
SE55002	115	SE56403	113	SE77250LH	89	SE100364	152
SE55003	115	SE56404	113	SE77250RH	89	SE100365	152
SE55004	115	SE57045LH	88	SE77375LH	89	SE100366	152
SE55005	115	SE57045RH	88	SE77375RH	89	SE100367	152
SE55006	115	SE57051LH	88	SE77438LH	89	SE100368	152
SE55007	115	SE57051RH	88	SE77438RH	89	SE100369	152
SE55008	115	SE57055LH	88	SE80200	101	SE100370	152
SE55009	115	SE57055RH	88	SE80201	101	SE100371	152
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SE55011	115	SE57065RH	88	SE80204	101	SE100373	152
SE55012	115	SE57067LH	88	SE80205	101	SE100374	152
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SE55014	115	SE57075LH	88	SE80207	101	SE100376	152
SE55015	115	SE57075RH	88	SE80208	101	SE100377	152
SE55016	115	SE57082LH	88	SE80209	101	SE100378	152
SE55017	115	SE57082RH	88	SE80210	100	SE100386	155
SE55018	115	SE57085LH	88	SE80211	100	SE100387	155
SE55019	115	SE57085RH	88	SE80212	100	SE100388	155
SE55020	115	SE57187LH	88	SE80212L	100	SE100389	155
SE55021	115	SE57187RH	88	SE80213	100	SE100390	155
SE55022	115	SE57250LH	88	SE80213L	100	SE100391	155
SE55023	115	SE57250RH	88	SE80214	100	SE100392	155
SE55024	115	SE57375LH	88	SE80214L	100	SE100393	155
SE55025	115	SE57375RH	88	SE80217	100	SE100395	154
SE55026	115	SE57438LH	88	SE80218	100	SE100396	154
SE55027	115	SE57438RH	88	SE90003*	102	SE100397	154
SE55028	115	SE57500LH	88	SE90005*	102	SE100398	154
SE55029	115	SE57500RH	88	SE90007*	102	SE100399	154
SE55030	115	SE57625LH	88	SE90009*	102	SE100400	154
SE55031	115	SE57625RH	88	SE90011**	102	SE100401	154
SE55032	115	SE63505LH	90	SE90013**	102	SE100402	154
SE55033	115	SE63505LH-F	90	SE90015**	102	SE100403	154
SE055461	152	SE63505RH	90	SE90016**	102	SE100404	154
SE055462	152	SE63505RH-F	90	SE90017**	102	SE100405	154
SE055464	152	SE70000-36	147	SE90017A***	102	SE100406	154
SE055465	152	SE70000-38	147	SE90018***	102	SE100407	154
SE055466	152	SE70000-41	147	SE90019***	102	SE100408	154
SE055467	152	SE70000-46	147	SE94620	116	SE100409	154
SE055468	152	SE70045LH	89	SE94624	116	SE100410	154
SE055469	155	SE70045RH	89	SE94628	116	SE100411	154
SE055470	155	SE70051LH	89			SE100412	154
SE055471	155	SE70051RH	89			SE100413	154

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SE100415	154	SE100869	154	SE114565	154	SE192064	104
SE100416	154	SE100870	154	SE114566	154	SE192084	103
SE100417	154	SE100881	156	SE114567	154	SE192091	103
SE100418	154	SE100940	153	SE114568	154	SE201002	106
SE100419	154	SE101673	154	SE114569	154	SE201011	106
SE100420	154	SE101718	154	SE114570	154	SE201031	106
SE100421	154	SE101720	154	SE114571	154	SE201050	106
SE100422	154	SE102179	154	SE114572	154	SE201101	106
SE100423	154	SE102716	154	SE114573	154	SE201121	106
SE100424	154	SE102774	154	SE114574	154	SE201142	106
SE100425	154	SE102982	154	SE114575	154	SE201152	106
SE100426	154	SE103821	154	SE114576	154	SE201162	106
SE100427	154	SE103823	154	SE114577	154	SE201172	106
SE100428	154	SE103824	154	SE114578	154	SE201183	106
SE100463	152	SE103943	154	SE114579	154	SE201192	106
SE100550	152	SE103994	154	SE114580	154	SE201202	106
SE100790	153	SE104022	154	SE114581	154	SE201221	106
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SE100803	153	SE104094	99	SE114583	154	SE203051HS	105
SE100804	153	SE104210	154	SE114584	154	SE203052HS	105
SE100805	153	SE104211	154	SE114585	154	SE203053HS	105
SE100806	153	SE104212	154	SE114586	154	SE203081HS	105
SE100807	153	SE104243	154	SE114587	154	SE203122HS	105
SE100808	153	SE104326	154	SE114588	154	SE207098	105
SE100809	153	SE104398	154	SE114589	154	SE280003	16
SE100811	153	SE104399	154	SE114590	154	SE280004	16
SE100812	153	SE104566	154	SE114591	154	SE280009	16
SE100813	153	SE104573	154	SE114592	154	SE280009A	16
SE100814	153	SE104589	154	SE114593	154	SE280010	16
SE100815	153	SE104613	154	SE114594	154	SE280011	16
SE100816	153	SE104686	154	SE114595	154	SE280012	16
SE100817	153	SE104687	154	SE114599	154	SE280014	16
SE100818	153	SE104720	154	SE114608	152	SE280018	16
SE100819	153	SE104766	154	SE114621	152	SE280020	16
SE100820	153	SE104808	154	SE114624	152	SE280024	16
SE100821	153	SE104977	153	SE114626	152	SE295005	108
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SE100824	153	SE105698	154	SE114647	152	SE295036	108
SE100825	153	SE107532	153	SE114648	152	SE295045	108
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SE100829	153	SE107535	153	SE116401HX	113	SE295075	108
SE100830	153	SE107545	154	SE116402	113	SE295085	108
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SE100833	153	SE107548	154	SE131000	44	SE295115	108
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SE100835	153	SE107550	154	SE131250	44	SE452500	144
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SE100837	156	SE113435	154	SE131250-516A	44	SE454000	144
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SE100839	156	SE114520	155	SE136401	113	SE502111	99
SE100840	156	SE114527	155	SE136401HX	113	SE502242	99
SE100841	156	SE114539	154	SE136402	113	SE635250LH	90
SE100842	156	SE114540	154	SE136403	113	SE635250LH-F	90
SE100844	156	SE114541	154	SE136404	113	SE635250RH	90
SE100845	156	SE114542	154	SE144000	99	SE635250RH-F	90
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SE100848	154	SE114545	154	SE188002	101	SE802061	102
SE100849	154	SE114547	154	SE191002	104	SE971125N	81
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SE100852	154	SE114549	154	SE191020	104	SE972531	81
SE100853	154	SE114550	154	SE191030	104	SE972837	81
SE100854	154	SE114551	154	SE191041	104	SE973443	81
SE100855	154	SE114552	154	SE191050	104	SE974050	81
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SE100858	154	SE114555	154	SE191080	104	SE976575	81
SE100859	154	SE114556	154	SE191121	104	SE1911101	104
SE100861	154	SE114557	154	SE191122	104	SE1911441	104
SE100862	154	SE114558	154	SE191130	104	SE1920301	104
SE100863	154	SE114559	154	SE191154	104	SE1920713	104
SE100864	154	SE114560	154	SE191158	104	SE1920914	103
SE100865	154	SE114561	154	SE191159	104	SE2070912	105
SE100866	154	SE114562	154	SE191160	104	SE2646809	112
SE100867	154	SE114563	154	SE191161	104	SE2646810	112

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SE2646812	112	SEBE2013*	52	SEHB5724RH	92	SEHMC625-DRILL	82
SE2646813	112	SEBE2014*	52	SEHB5725LH	92	SEHMC750*	82
SE2646909	112	SEBE2015*	52	SEHB5725RH	92	SEHMC750-DRILL	82
SE2646910	112	SEBE2016*	52	SEHB5726LH	92	SEHN-24mm-10	139
SE2646911	112	SE-BRP	121	SEHB5726RH	92	SEHN-24mm-20	139
SE2646912	112	SE-BRPT	121	SEHB5728LH	92	SEHN-24mm-.187	139
SE2646913	112	SE-BRS	120	SEHB5728RH	92	SEHN-24mm-.375	139
SE2646914	112	SECB-4KIT	148	SEHB5730LH	92	SEHN-24mm-.500	139
SE2646915	112	SECB-7KIT	148	SEHB5730RH	92	SEHN-24mm-.625	139
SE2647009	112	SECB250	148	SEHB5732LH	92	SEHN-24mm-.750	139
SE2647010	112	SECB312	148	SEHB5732RH	92	SEHN-29mm-.187	139
SE2647011	112	SECB375	148	SEHB5734LH	92	SEHN-29mm-.500	139
SE2647012	112	SECB500	148	SEHB5734RH	92	SEHN-29mm-.750	139
SE2647013	112	SECB625	148	SEHB5735LH	92	SEHN-Piggyback-12	139
SE2647014	112	SECB750	148	SEHB5735RH	92	SEHN-Piggyback-14	139
SE2647015	112	SECB1000	148	SEHB5736LH	92	SEHN-Piggyback-38	139
SE2647016	112	SEC-POINT	86	SEHB5736RH	92	SEHN-Piggyback-58	139
SE2647017	112	SECR500LH	82	SEHB5738LH	92	SEHSSRB-1	82
SE4403502	145	SECR500RH	82	SEHB5738RH	92	SEHSSRB-2	82
SE8505002	142	SECR625LH	82	SEHB5740LH	92	SEHSSRB-3	82
SE8605002	142	SECR625LH-11	82	SEHB5740RH	92	SEHSSRB-34	82
SE8605003	142	SECR625RH	82	SEHB7015LH	92	SEHSSRB-112	82
SE8905001	142	SECR625RH-11	82	SEHB7015RH	92	SEHSSRB-114	82
SE8905002	142	SECR750LH	82	SEHB7016LH	92	SEHSSRB-134	82
SE8905003	142	SECR750LH-11	82	SEHB7016RH	92	SEHSSRB-212	82
SEA250175	112	SECR750LH-12	82	SEHB7017LH	92	SEHSSRB-214	82
SEA250275	112	SECR750RH	82	SEHB7017RH	92	SEHSSRB-234	82
SEA250315	112	SECR750RH-11	82	SEHB7018LH	92	SE-IBP	121
SEA250375	112	SECR750RH-12	82	SEHB7018RH	92	SE-IBP-Round	121
SEA250415	112	SECR1000LH	82	SEHB7019LH	92	SEIBRP-34	119
SEA250475	112	SECR1000RH	82	SEHB7019RH	92	SEIBT22-12	118
SEA250515	112	SECS143IR	118	SEHB7020LH	92	SEIBT22-14	118
SEA250575	112	SEC-SCREW	86	SEHB7020RH	92	SEIBT45-12	118
SEA250615	112	SECSRB-1	81	SEHB7022LH	92	SEIBT45-14	118
SEA250675	112	SECSRB-2	81	SEHB7022RH	92	SE-ICSB	119
SEA250715	112	SECSRB-34	81	SEHB7024LH	92	SE-ICSB	120
SEA250815	112	SECSRB-112	81	SEHB7024RH	92	SE-ICSBFD	119
SEA250875	112	SECSRB-114	81	SEHB7025LH	92	SE-ICSO	119
SEA250915	112	SECSRB-134	81	SEHB7025RH	92	SE-ICSO	120
SEA250975	112	SECSRB-212	81	SEHB7026LH	92	SE-ICSOFD	119
SEA251015	112	SECSRB-214	81	SEHB7026RH	92	SE-ICSR	119
SEA251075	112	SECTDS38	37	SEHB7028LH	92	SE-ICSR	120
SEA251115	112	SECTDS38	68	SEHB7028RH	92	SE-ICSRFD	119
SEA251175	112	SEDC32-12	147	SEHB7030LH	92	SEID218	86
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SEA251275	112	SEDC32-34	147	SEHB7032LH	92	SEIFT-71214*	117
SEA251315	112	SEDC32-38	147	SEHB7032RH	92	SEIFT-73012**	117
SEA251375	112	SEDC32-58	147	SEHB7034LH	92	SEIFT-74012**	117
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SEA251475	112	SEDC32-516	147	SEHB7035LH	92	SEIMHB-1250	43
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SEA251575	112	SEDL12-5	83	SEHB7036LH	92	SEINS22-40	118
SEA251615	112	SEDL12-F*	83	SEHB7036RH	92	SEINS22-50	118
SEA251675	112	SEDOOR-53	83	SEHB7038LH	92	SEINS-34	117
SEA251715	112	SEDOOR-53M	83	SEHB7038RH	92	SEINS-34-12	117
SEA251775	112	SEDOOR-53T	83	SEHB7040LH	92	SEINS-34-40	117
SE-BBP	121	SEDOOR-57F	83	SEHB7040RH	92	SEINS-34-50	117
SE-BCS	120	SEDOOR-57FT	83	SEHB70165LH	92	SEINS-34-58	117
SEBE2000	52	SEDOOR-60	83	SEHB70165RH	92	SE-IRPC	120
SEBE2000A	52	SEDOOR-60T	83	SEHK-116	79	SE-IRPC	121
SEBE2000C	52	SEDOOR-70	83	SEHK-116	80	SE-IRPO	120
SEBE2000D	52	SEDOOR-70F	83	SEHK-332	80	SE-IRPO	121
SEBE2001	52	SE-E12	79	SEHK-532	80	SE-IRPS	120
SEBE2002	52	SE-E25	79	SEHK-564	80	SE-IRPS	121
SEBE2003	52	SEHB5715LH	92	SEHMA-12	43	SE-IRPT	121
SEBE2003A	52	SEHB5715RH	92	SEHMA-12-516	43	SE-IRSB	119
SEBE2004	52	SEHB5716LH	92	SEHMA-12-516-XXL	43	SE-IRSB	120
SEBE2005	52	SEHB5716RH	92	SEHMA-12-XL	43	SE-IRSBFD	119
SEBE2005A	52	SEHB5717LH	92	SEHMA-12-XXL	43	SE-IRSO	119
SEBE2006	52	SEHB5717RH	92	SEHMA-14	43	SE-IRSO	120
SEBE2007	52	SEHB5718LH	92	SEHMA-14-516	43	SE-IRSOFD	119
SEBE2008	52	SEHB5718RH	92	SEHMA-38-XL	43	SE-IRSR	119
SEBE2008A	52	SEHB5719LH	92	SEHMA-38-XL	43	SE-IRSR	120
SEBE2009	52	SEHB5719RH	92	SEHMC250	82	SE-IRSRFD	119
SEBE2009A	52	SEHB5720LH	92	SEHMC250-DRILL	82	SEIS1-73012	117
SEBE2009B	52	SEHB5720RH	92	SEHMC375	82	SEIS1-74012	117
SEBE2010	52	SEHB5722LH	92	SEHMC375-DRILL	82	SEIS2-740	117
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SEIT750-30	40	SENTS-HSK63F-36	147	SESD-20mm-.312	135	SESPM-66-630	129
SEIT750-30*	117	SENTS-HSK63F-38	147	SESD-20mm-.375	135	SESPM-69-448	129
SEIT750-40	40	SENTS-HSK63F-41	147	SESD-20mm-.500	135	SESPM-69-660	129
SEIT750-40*	117	SENTS-HSK63F-46	147	SESD-20mm-.625	135	SESS-22-10mm	136
SEIT750-50	40	SENTS-ISO30-36	147	SESD-20mm-Nut	135	SESS-22-12	136
SEIT750-50*	117	SENTS-ISO30-38	147	SESD-20mm-Nut	136	SESS-22-14	136
SEIT1125-30	40	SENTS-ISO30-47	147	SESD-20mm-TWA	148	SESS-22-38	136
SEIT1125-30**	117	SEPD125LH	83	SESD516	111	SESS-22-58	136
SEIT1125-40	40	SEPD125RH	83	SESD531	111	SESS-22-ext-nut	136
SEIT1125-40**	117	SEPD187LH	83	SESD547	111	SESS-22-ext-nut	136
SEIT1125-50	40	SEPD187RH	83	SESD563	111	SESS22EXTTWA	148
SEIT1125-50**	117	SEPD250LH	83	SESD578	111	SESS-22-Nut	136
SEIV90-12	117	SEPD250RH	83	SESD594	111	SESS-22-Nut	136
SEIV91-12	117	SEPD375LH	83	SESD609	111	SESS22TWA	148
SEJS13M	108	SEPD375RH	83	SESD625	111	SE-T8	130
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SEJS21M	108	SEPE30DM20	141	SESD656	111	SETSM1005RH	94
SEJS25MET	108	SEPSS-30BT	149	SESD672	111	SETSM1006LH	94
SEJS29M	108	SEPSS-30ISO	149	SESD688	111	SETSM1006RH	94
SEJS49MET	108	SEPSS-40	149	SESD703	111	SETSM1008LH	94
SELC-12	79	SEPSS-50	149	SESD719	111	SETSM1008RH	94
SELC-14	79	SEPSSC-50	149	SESD734	111	SETSM1010LH	94
SELC-18	79	SERC500LH	83	SESD750	111	SETSM1010RH	94
SELC-SCREW	79	SERC500RH	83	SESD766	111	SETSM1012LH	94
SEM2-1250-14	131	SERC750LH	83	SESD781	111	SETSM1012RH	94
SEM2-1250-516	130	SERC750RH	83	SESD797	111	SETSM1015LH	94
SEM2-1500-14	131	SERTP110	149	SESD813	111	SETSM1015RH	94
SEM2-1500-516	130	SERTP120	149	SESD828	111	SETSM8005LH	94
SEM2-1750-14	131	SERTP130	149	SESD844	111	SETSM8005RH	94
SEM2-1750-516	130	SERTP140	149	SESD859	111	SETSM8006LH	94
SEM2-2000-14	131	SERTP150	149	SESD875	111	SETSM8006RH	94
SEM2-2000-516	130	SERTP310	149	SESD891	111	SETSM8008LH	94
SEM2-2250-14	131	SERTP320	149	SESD906	111	SETSM8008RH	94
SEM2-2250-516	130	SERTP330	149	SESD922	111	SETSM8010LH	94
SEM2-2500-14	131	SERTP340	149	SESD938	111	SETSM8010RH	94
SEM2-2500-516	130	SERTP350	149	SESD953	111	SETSM8012LH	94
SEM2-2750-516	130	SES0100	70	SESD969	111	SETSM8012RH	94
SEM2-3000-516	130	SES0102	70	SESD984	111	SETSM8015LH	94
SEM2C-14-1250	131	SES0140	69	SESD1000	111	SETSM8015RH	94
SEM2C-14-1500	131	SES0145	69	SESD-C001-10mm	135	SEV5803LH	90
SEM2C-14-1750	131	SES0150	69	SESD-C001-.125	135	SEV5803RH	90
SEM2C-14-2000	131	SES0152	69	SESD-C001-.187	135	SEV5804LH	90
SEM2C-14-2250	131	SES0155	69	SESD-C001-.250	135	SEV5804RH	90
SEM2C-14-2500	131	SES0157	69	SESD-C001-.312	135	SEV5805LH	90
SEM2C-516-1250	131	SES0170	69	SESD-C001-.375	135	SEV5805RH	90
SEM2C-516-1500	131	SES0185	69	SESD-C001-.500	135	SEV5806LH	90
SEM2C-516-1750	131	SES0212	69	SESD-C001-Nut	135	SEV5806RH	90
SEM2C-516-2000	131	SES0217	69	SESD-C001-Nut	136	SEV5807LH	90
SEM2C-516-2250	131	SES0222	69	SESD-C001-TWA	148	SEV5807RH	90
SEM2C-516-2500	131	SES0227	69	SESD-C015-10mm	135	SEV5808LH	90
SEM2C-516-2750	131	SES0245	70	SESD-C015-.125	135	SEV5808RH	90
SEM2C-516-3000	131	SES0255	70	SESD-C015-.250	135	SEV5809LH	90
SEM5-SCREW	86	SES0275	69	SESD-C015-.312	135	SEV5809RH	90
SEM35-SCREW	86	SES0280	70	SESD-C015-.375	135	SEV5810LH	90
SEMH422ST	132	SES0285	69	SESD-C015-.500	135	SEV5810RH	90
SEMH424ST	132	SES0290	70	SESD-C015-.625	135	SEV5811LH	90
SEMH426ST	132	SES0295	69	SESD-C015-.750	135	SEV5811RH	90
SEMH442ST	132	SES0296	70	SESD-C015-Nut	135	SEV5812LH	90
SEMH444ST	132	SES0297	69	SESD-C015-Nut	136	SEV5812RH	90
SEMH446ST	132	SES0298	70	SESD-C015-TWA	148	SEV5813LH	90
SEMH542ST	132	SES0465	72	SESK-012	62	SEV5813RH	90
SEMH544ST	132	SES0466	72	SESK-012	67	SEV5814LH	90
SEMH546ST	132	SES0470	72	SESK-012	76	SEV5814RH	90
SEMH549ST	132	SESC-1	114	SESK-012	80	SEV5815LH	90
SEMH642ST	132	SESC-4Set	114	SESP-44-416	129	SEV5815RH	90
SEMH644ST	132	SESC-7Set	114	SESP-44-624	129	SEV5816LH	90
SEMH646ST	132	SESC-12	114	SESP-45-420	129	SEV5816RH	90
SEMH649ST	132	SESC-14	114	SESP-45-630	129	SEV5818LH	90
SEMH662ST	132	SESC-18	114	SESP-46-424	129	SEV5818RH	90
SEMH664ST	132	SESC-34	114	SESP-46-636	129	SEV7003LH	91
SEMH666ST	132	SESC-38	114	SESPM-54-416	129	SEV7003RH	91
SEMH669ST	132	SESC-58	114	SESPM-54-624	129	SEV7004LH	91
SENT-54300130	141	SESC-78	114	SESPM-56-420	129	SEV7004RH	91
SENT-54300130-L	141	SESC-316	114	SESPM-56-630	129	SEV7005LH	91
SENTS-BD-15	147	SESC-516	114	SESPM-59-448	129	SEV7005RH	91
SENTS-BT30-38	147	SESC-716	114	SESPM-59-660	129	SEV7006LH	91
SENTS-BT30-41	147	SESC-916	114	SESPM-64-416	129	SEV7006RH	91



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SEV7007RH	91	SEV77438LH	91	SI-181215	122	SI-1717203	122
SEV7008LH	91	SEV77438RH	91	SI-191920	122	SI-1717204	122
SEV7008RH	91	SEWH-14-2000	131	SI-197815	125	SI-1951015	122
SEV7009LH	91	SEWH-14-2000C	131	SI-201215	122	SI-1951115	122
SEV7009RH	91	SEWH-14-2250	131	SI-201215AL	124	SI-1951215	122
SEV7010LH	91	SEWH-14-2250C	131	SI-201215AR	124	SI-1957015	122
SEV7010RH	91	SEWH-14-2500	131	SI-201215CB	125	SI-1957515	122
SEV7011LH	91	SEWH-14-2500C	131	SI-205511BCG	125	SI-1958015	122
SEV7011RH	91	SEWH-316-2000	131	SI-205511BG	124	SI-1959015	122
SEV7012LH	91	SEWH-316-2000C	131	SI-205511FG	125	SI-2951015	123
SEV7012RH	91	SFFB700	88	SI-205511FG4	125	SI-2951115	123
SEV7013LH	91	SFFB710	88	SI-212155	122	SI-2951215	130
SEV7013RH	91	SFFB720	88	SI-251215	122	SI-2951215SP	123
SEV7014LH	91	SFFB800	88	SI-251215-2	86	SI-2957015	123
SEV7014RH	91	SFFB900	88	SI-251215-2	123	SI-2957515	123
SEV7015LH	91	SFFB1000	88	SI-255511FG4	125	SI-2958015	123
SEV7015RH	91	SFTD220	14	SI-258015	122	SI-2959015	123
SEV7016LH	91	SFTD255	14	SI-287015	123	SI-2959015SP	123
SEV7016RH	91	SFTD265	14	SI-301215	123	SI-3951215	123
SEV7017LH	91	SFTU120	14	SI-301215	130	SI-3951215	130
SEV7017RH	91	SFTU155	14	SI-301215-16	123	SI-3951215V	128
SEV7018LH	91	SFTU165	14	SI-301215AL	124	SI-4451515	123
SEV7018RH	91	SFTUD555	14	SI-301215AR	124	SI-4951015	123
SEV7019LH	91	SFTUD780	14	SI-301215CA	123	SI-4951115	123
SEV7019RH	91	SHDUD539	33	SI-301215CB	125	SI-4951215	123
SEV7704LH	91	SHDUD539MAX	34	SI-301215DCL	124	SI-4951215	130
SEV7704RH	91	SHDUD545	33	SI-301215DCR	124	SI-4951215-SP	123
SEV7705LH	91	SHDUD547MAX	34	SI-301215P	123	SI-4958015	123
SEV7705RH	91	SHDUD550	33	SI-301215SP	123	SI-4959015	123
SEV7706LH	91	SHDUD550MAX	34	SI-301215-TL15	123	SI-4959015-SP	123
SEV7706RH	91	SHDUD551	33	SI-301225	123	SI-5951215	123
SEV7707LH	91	SHDUD551MAX	34	SI-301402LH	128	SI-10510515	122
SEV7707RH	91	SHDUD555	33	SI-301402RH	128	SI-10510515CS	122
SEV7708LH	91	SHDUD555MAX	34	SI-305511BCG	125	SI-14314325	122
SEV7708RH	91	SHDUD558	33	SI-305511BG	124	SI-14614625	122
SEV7710LH	91	SHDUD558MAX	34	SI-305511BG- SP	124	SI-14614625CR	122
SEV7710RH	91	SHDUD559MAX	34	SI-305511FG	125	SICS-Screw	130
SEV7712LH	91	SHDUD565	33	SI-305511FG4	125	SIDR-161752-2	126
SEV7712RH	91	SHDUD566	33	SI-351215	123	SIDR-161752-3	126
SEV58055LH	90	SHDUD575	33	SI-355511FG4	125	SIDR-161752-4	126
SEV58055RH	90	SHDUD750	34	SI-401215	123	SIDR-161752-5	126
SEV58065LH	90	SHDUD751	34	SI-401215	130	SIGSH-Screw	130
SEV58065RH	90	SHDUD754	34	SI-401215AL	124	SILS-308015	126
SEV58079LH	90	SHDUD758	34	SI-401215AR	124	SILS-358015	126
SEV58079RH	90	SHDUD766	34	SI-401215CA	123	SILS-408015	126
SEV58111LH	90	SI4-Screw	130	SI-405511BCG	125	SILS-458015	126
SEV58111RH	90	SI35-Screw	130	SI-405511BG	124	SILS-508015	126
SEV58187LH	90	SI-1580 Wrench	130	SI-405511FG	125	SILS-608015	126
SEV58187RH	90	SI-25100Wrench	130	SI-405511FG4	125	SILS-708015	126
SEV58250LH	90	SI-117815	125	SI-501017	124	SILS-778015	126
SEV58250RH	90	SI-121215	122	SI-501215	123	SILS-808015	126
SEV58375LH	90	SI-121215	130	SI-501215	130	SILS-978015	126
SEV58375RH	90	SI-125511BG	124	SI-501215AL	124	SILS-1008015	126
SEV58500LH	90	SI-125511FG	125	SI-501215AR	124	SILS-1178015	126
SEV58500RH	90	SI-131215	122	SI-501215CA	123	SILS-1208015	126
SEV70055LH	91	SI-131325	122	SI-501215CB	125	SILS-1478018	126
SEV70055RH	91	SI-141412	122	SI-501215DCL	124	SILS-1978015	126
SEV70065LH	91	SI-141412 Holz	122	SI-501215DCR	124	SILS-2478015	126
SEV70065RH	91	SI-141420	86	SI-501217	124	SIPP-565511	127
SEV70071LH	91	SI-141420	122	SI-505511BCG	125	SIPP-605511	127
SEV70071RH	91	SI-141420CR	122	SI-505511BG	124	SIPP-785511	127
SEV70082LH	91	SI-141420-SP	122	SI-505511BG-T03	124	SIPP-825511	127
SEV70082RH	91	SI-141420-T10	122	SI-505511FG	125	SIPP-925511	127
SEV70102LH	91	SI-151215	122	SI-505511FG4	125	SIPP-1025511	127
SEV70102RH	91	SI-151520CB	125	SI-508015FG	125	SIPP-7555511	127
SEV70104LH	91	SI-151525	122	SI-601215	123	SIPP-7575512	127
SEV70104RH	91	SI-151525	130	SI-608015FG	125	SIPP-8055511	127
SEV70111LH	91	SI-151525- 30deg	122	SI-751215	122	SIPP-8055912	127
SEV70111RH	91	SI-151525 Byrd	122	SI-801322	123	SIPP-8275511	127
SEV70142LH	91	SI-151525-R50	122	SI-861215	122	SIR-14223-3LH*	129
SEV70142RH	91	SI-151525-SQ	122	SI-901215	122	SIR-14223-3RH*	129
SEV70187LH	91	SI-151525-SQ-SP	122	SI-961215	122	SIR-121452L-2	125
SEV70187RH	91	SI-152370-224	128	SI-978152	125	SIR-121452L-3	125
SEV70250LH	91	SI-152373-223	128	SI-1001322	123	SIR-121452L-25	125
SEV70250RH	91	SI-152380-210	128	SI-1201322	123	SIR-121452R-2	125
SEV70375LH	91	SI-152390-220	128	SI-1361362	122	SIR-121452R-3	125
SEV70375RH	91	SI-152390-221	128	SI-1478152	125	SIR-121452R-25	125
SEV70500LH	91	SI-152390-225	128	SI-1525773-240	128	SIR-121802-2LH	129

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SIR-121802-2RH	129	SL093-2A5	73	SLAT780	87	SMDUD790*	34
SIR-121802-2RH-MFA	129	SL093-3	73	SLAT790	87	SMDUD795	34
SIR-121802-3LH	129	SL093-3A2	74	SLAT800	87	SMS300	84
SIR-121802-3LH-MFA	129	SL093-3A5	74	SLAT810	87	SMS305	84
SIR-121802-3RH	129	SL093-4	74	SLAT820	87	SMS310	84
SIR-121802-3RH-MFA	129	SL093-4A2	74	SLD400	25	SMS315	84
SIR-151452L-2	126	SL093-4A5	74	SLD410	25	SMS321	84
SIR-151452L-3	126	SL100-3	73	SLD415	25	SMS325	84
SIR-151452L-25	126	SL100-3A2	74	SLD420	25	SMS330	84
SIR-151452R-2	126	SL100-3A5	74	SLD425	25	SMS335	84
SIR-151452R-3	126	SL106-3	73	SLD430	25	SMS340	84
SIR-151452R-25	126	SL106-3A2	74	SLD435	25	SMS345	84
SIR-1961522L-2	126	SL106-3A5	74	SLD440	25	SMS350	84
SIR-1961522R-2	126	SL110-3	73	SLD445	25	SMS355	84
SIR-19615223L-3	126	SL110-3A2	74	SLD450	25	SMS360	84
SIR-19615223R-3	126	SL110-3A5	74	SLD455	25	SMS365	84
SIRP-12712732-2	126	SL115-3	73	SLD460	25	SMS370	84
SIRP-12712732-3	126	SL115-3A2	74	SLD465	25	SMS375	84
SIS-2012202	127	SL115-3A5	74	SLD470	25	SMS380	84
SIS-2012203	127	SL125-2	73	SLIN010	12	SMS385	84
SIS-2012204	127	SL125-2	76	SLIN062	12	SMS390	84
SIS-2012205	127	SL125-2A2	73	SLIN085	12	SMS395	84
SI-Screw10-32x6	130	SL125-2A5	73	SLOC600	87	SMS400	84
SI-Screw10-32x9	130	SL125-3	73	SLOC605	87	SMS411	84
SISG-141420-2	127	SL125-3A2	74	SLOC610	87	SMS413	84
SISG-142820	127	SL125-3A5	74	SLOC620	87	SMS414	84
SISG-161630	127	SL125-4	74	SLU300	25	SMS415	84
SISG-341640	128	SL125-4A2	74	SLU310	25	SMS420	84
SISG-341650	128	SL125-4A5	74	SLU315	25	SMS425	84
SISG-341660	128	SL140-3	73	SLU320	25	SMS430	84
SISG-341670	128	SL140-3A2	74	SLU325	25	SMS435	84
SISG-1818195	127	SL140-3A5	74	SLU330	25	SMS440	84
SISG-1818245	127	SL157-2	73	SLU335	25	SMS440-34*	84
SISG-1818295	127	SL157-2	76	SLU340	25	SMS445	84
SISG-1818370	127	SL157-2A2	73	SLU345	25	SMS445-34*	84
SISP-185735	128	SL157-2A5	73	SLU350	25	SMS450	84
SIS-Screw	130	SL157-3	73	SLU355	25	SMS450-34*	84
SITS-221920	127	SL157-3A2	74	SLU360	25	SMS455	84
SI-Wrench	130	SL157-3A5	74	SLU365	25	SMS455-34*	84
SJM187-4	75	SL157-4	74	SLU370	25	SMS460	84
SJM187-6	75	SL157-4A2	74	SLUD598	31	SMS460-34*	84
SJM250-4	75	SL157-4A5	74	SLUD600	31	SMSHS280	85
SJM250-6	75	SL187-2	73	SLUD605	31	SMSHS290	85
SJM281-6	75	SL187-2	76	SLUD610	31	SMSHS295	85
SL050-3	73	SL187-2A2	73	SLUD615	31	SMSHS298	85
SL050-3A2	74	SL187-2A5	73	SLUD648	32	SMSHS300	85
SL050-3A5	74	SL187-3	73	SLUD650	32	SMSHS303	85
SL055-3	73	SL187-3A2	74	SLUD655	32	SMSHS305	85
SL055-3A2	74	SL187-3A5	74	SLUD665	32	SMSHS310	85
SL055-3A5	74	SL187-4	74	SLUD673	32	SMSHS315	85
SL062-2	73	SL187-4A2	74	SLUD680	32	SMSHS321	85
SL062-2A2	73	SL187-4A5	74	SLUD685	32	SMSHS325	85
SL062-2A5	73	SL218-3	73	SLUD690	32	SMSHS330	85
SL062-3	73	SL218-3A2	74	SLUD696	32	SMSHS335	85
SL062-3A2	74	SL218-3A5	74	SMDUD445	33	SMSHS340	85
SL062-3A5	74	SL250-2	73	SMDUD539	33	SMSHS345	85
SL062-4	74	SL250-2	76	SMDUD540	33	SMSHS350	85
SL062-4A2	74	SL250-2A2	73	SMDUD550	33	SMSHS355	85
SL062-4A5	74	SL250-2A5	73	SMDUD551	33	SMSHS360	85
SL070-3	73	SL250-3	73	SMDUD551-1	33	SMSHS365	85
SL070-3A2	74	SL250-3A2	74	SMDUD554	33	SMSHS370	85
SL070-3A5	74	SL250-3A5	74	SMDUD554A	33	SMSHS375	85
SL070-4	74	SL250-4	74	SMDUD555	33	SMSHS380	85
SL070-4A2	74	SL250-4A2	74	SMDUD557	33	SMSHS385	85
SL070-4A5	74	SL250-4A5	74	SMDUD558	33	SMSHS390	85
SL078-2	73	SL281-3	73	SMDUD560	33	SMSHS395	85
SL078-2A2	73	SL281-3A2	74	SMDUD563	33	SMSHS400	85
SL078-2A5	73	SL281-3A5	74	SMDUD565	33	SMSHS411	85
SL078-3	73	SL281-4	74	SMDUD566	33	SMSHS413	85
SL078-3A2	74	SL281-4A2	74	SMDUD567	33	SMSHS414	85
SL078-3A5	74	SL281-4A5	74	SMDUD569	33	SMSHS415	85
SL080-3	73	SLASCA	76	SMDUD571	33	SMSHS420	85
SL080-3A2	74	SLAT670	87	SMDUD573	33	SMSHS425	85
SL080-3A5	74	SLAT680	87	SMDUD575	33	SMSHS430	85
SL080-4	74	SLAT690	87	SMDUD750	34	SMSHS435	85
SL080-4A2	74	SLAT720	87	SMDUD751*	34	SMSHS440	85
SL080-4A5	74	SLAT730	87	SMDUD751A	34	SMSHS440-34*	85
SL093-2	73	SLAT740	87	SMDUD755	34	SMSHS445	85

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SMSHS455	85	SOUA513	20	SRD212	22	SRD492RUF	28
SMSHS455-34*	85	SOUA520	20	SRD213	22	SRD493RUF	28
SMSHS460	85	SOUA523	20	SRD215	22	SRD495RUF	28
SMSHS460-34*	85	SOUAL500	20	SRD216	22	SRD497RUF	28
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SN320	12	SOUAL513	20	SRD218MD	24	SRD555T	26
SN330	12	SOUAL520	20	SRD220	22	SRD555TCB	27
SN340	12	SOUAL523	20	SRD220MD	24	SRD560T	26
SN360	12	SPL100	17	SRD221*	22	SRD560TCB	27
SN390	12	SPL100LH	17	SRD223	22	SRD565T	26
SN605	12	SPL102	17	SRD223A	22	SRD565TCB	27
SN610	12	SPL103	17	SRD223B	22	SRD580T	26
SN620	12	SPL105	17	SRD224	22	SRD580TCB	27
SN630	12	SPL105LH	17	SRD224A	22	SRD585T	26
SN640	12	SPL110	17	SRD224B	22	SRD585TCB	27
SN660	12	SPL110LH	17	SRD225	22	SRD590T	26
SN690	12	SPL111	17	SRD227	22	SRD590TCB	27
SOD402	19	SPL113	17	SRD230	22	SRD595T	26
SOD413	19	SPL115	17	SRD233	22	SRD595TCB	27
SOD423	19	SPL120	17	SRD235	22	SRD597T	26
SOD426	19	SPL120LH	17	SRD235HD	24	SRD613SLRUF	29
SOD435	19	SPL125	17	SRD235MD	24	SRD614SLRUF	29
SOD445	19	SPL128	17	SRD237	22	SRD614SRHP	30
SOD602	19	SPL130	17	SRD237CB	25	SRD625SLRUF	29
SOD613	19	SPL134	17	SRD237HD	24	SRD625SRHP	30
SOD623	19	SPL140	17	SRD237MD	24	SRD626SLRUF	29
SOD626	19	SPL148	17	SRD240	22	SRD627SLRUF	29
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SOU313	18	SPL223	17	SRD255HD	24	SRD728SL	27
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SOU345	18	SPOIL25-2	118	SRD265CB	25	SRDF625SRHP	30
SOU490	19	SPOIL25-2UP	119	SRD265MD	24	SRMU160	29
SOU500	19	SPOIL178-2	118	SRD267	22	SRU090	23
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SOU500B	19	SPOIL-Insert	119	SRD268	22	SRU102	23
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SOU503	19	SPOIL-Wrench	119	SRD270	22	SRU103MD	24
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SOU513	19	SPR210	18	SRD280	22	SRU105	23
SOU520	19	SPR220	18	SRD280CB	25	SRU110	23
SOU523	19	SPR300	18	SRD285	22	SRU112	23
SOU524	19	SPR310	18	SRD290	22	SRU113	23
SOU526	19	SPR320	18	SRD290CB	25	SRU114MD	24
SOU527	19	SPR400	18	SRD291	22	SRU115	23
SOU532	19	SPR410	18	SRD292	22	SRU118	23
SOU535	19	SPR420	18	SRD293	22	SRU119	23
SOU538	19	SPS2-16-095	77	SRD293CB	25	SRU120	23
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SRU490T	26	STOP080	76	SUD755	34	WDC 7155	159
SRU490TCB	28	STOP085	76	SUD756*	34	WDC 7160	159
SRU495T	26	STOP090	76	SUD765	34	WDC 7165	159
SRU495TCB	28	STOP093	76	SUD790	34	WDC 7170	159
SRU497T	26	STOP093-3	76	SUD840*	35	WDC 7175	159
SRU513SLRUF	29	STOP095	76	SUD842	35	WDC 7180	159
SRU513SRHP	30	STOP100	76	SUD844	35	WDC 7185	159
SRU523SLRUF	29	STOP105	76	SUD860	35	WDC 7190	159
SRU523SRHP	30	STOP110	76	SUD870	35	WDC 7200	159

WDC 7210	159	WF 7270	166	WG 7240	167	WHC 7165	163
WDC 7215	159	WF 7275	166	WG 7250	167	WHC 7200	163
WDC 7220	159	WF 7280	166	WG 7265	167	WHC 7215	163
WDC 7230	159	WF 7285	166	WG 7275	167	WHC 7230	163
WDC 7250	159	WF 7290	166	WG 7280	167	WHC 7250	163
WDC 7280	159	WF 7300	166	WG 7300	167	WHC 7265	163
WDC 7281	159	WF 7310	166	WG 7312	167	WHC 7280	163
WDC 7312	159	WF 7312	166	WG 7335	167	WQ 7200	167
WDCL 7165	164	WF 7320	166	WG 7350	167	WQ 7265	167
WDCL 7185	164	WF 7330	166	WG 7375	167	WQ 7300	167
WDCL 7200	164	WF 7350	166	WG 7400	167	WQ 7335	167
WDCL 7215	164	WF 7375	166	WG 7437	167	WQ 7375	167
WDCL 7250	164	WF 7400	166	WG 7460	167	WQ 7400	167
WDCR 7165	164	WF 7437	166	WG 7500	167	WQ 7460	167
WDCR 7185	164	WF 7500	166	WG 7530	167	WQ 7500	167
WDCR 7200	164	WF 7530	166	WG 7560	167	WQC 7230	163
WDCR 7215	164	WF 7562	166	WG 7625	167	WQC 7250	163
WDCR 7250	164	WF 7625	166	WG 7687	167	WQC 7300	163
WE 7085	166	WF 7750	166	WGC 7090	162	WQC 7400	163
WE 7135	166	WFC 7110	161	WGC 7100	162	WQC 7530	163
WE 7150	166	WFC 7115	161	WGC 7105	162	WQC 7625	163
WE 7165	166	WFC 7120	161	WGC 7110	162	WXC 7095	163
WE 7185	166	WFC 7125	161	WGC 7115	162	WXC 7100	163
WE 7200	166	WFC 7130	161	WGC 7120	162	WXC 7105	163
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WE 7225	166	WFC 7140	161	WGC 7130	162	WXC 7115	163
WE 7235	166	WFC 7145	161	WGC 7135	162	WXC 7120	163
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WE 7281	166	WFC 7160	161	WGC 7150	162	WXC 7135	163
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WE 7400	166	WFC 7180	161	WGC 7170	162	WXC 7160	163
WEC 7110	160	WFC 7185	161	WGC 7175	162	WXC 7165	163
WEC 7120	160	WFC 7190	161	WGC 7180	162	WXC 7170	163
WEC 7130	160	WFC 7195	161	WGC 7185	162	WXC 7175	163
WEC 7135	160	WFC 7200	161	WGC 7190	162	WXC 7180	163
WEC 7140	160	WFC 7205	161	WGC 7195	162	WXC 7190	163
WEC 7150	160	WFC 7210	161	WGC 7200	162	WXC 7195	163
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WEC 7170	160	WFC 7220	161	WGC 7215	162		
WEC 7175	160	WFC 7230	161	WGC 7220	162		
WEC 7180	160	WFC 7235	161	WGC 7225	162		
WEC 7185	160	WFC 7240	161	WGC 7228	162		
WEC 7190	160	WFC 7250	161	WGC 7230	162		
WEC 7200	160	WFC 7256	161	WGC 7240	162		
WEC 7205	160	WFC 7260	161	WGC 7250	162		
WEC 7210	160	WFC 7265	161	WGC 7256	162		
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WEC 7220	160	WFC 7275	161	WGC 7265	162		
WEC 7225	160	WFC 7280	161	WGC 7270	162		
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WEC 7240	160	WFC 7290	161	WGC 7280	162		
WEC 7250	160	WFC 7300	161	WGC 7300	162		
WEC 7260	160	WFC 7310	161	WGC 7310	162		
WEC 7265	160	WFC 7312	161	WGC 7312	162		
WEC 7280	160	WFC 7330	161	WGC 7320	162		
WEC 7281	160	WFC 7335	161	WGC 7335	162		
WEC 7300	160	WFC 7340	161	WGC 7350	162		
WEC 7312	160	WFC 7350	161	WGC 7400	162		
WEC 7375	160	WFC 7375	161	WGC 7500	162		
WEC 7400	160	WFC 7400	161	WGC 7550	162		
WF 7120	166	WFC 7430	161	WGCL 7230	164		
WF 7150	166	WFC 7437	161	WGCL 7250	164		
WF 7160	166	WFC 7500	161	WGCL 7265	164		
WF 7165	166	WFC 7562	161	WGCL 7270	164		
WF 7170	166	WFC 7625	161	WGCR 7230	164		
WF 7180	166	WFC 7687	161	WGCR 7250	164		
WF 7190	166	WFC 7750	161	WGCR 7265	164		
WF 7200	166	WG 7150	167	WGCR 7270	164		
WF 7210	166	WG 7165	167	WH 7197	168		
WF 7215	166	WG 7180	167	WH 7215	168		
WF 7220	166	WG 7190	167	WH 7230	168		
WF 7230	166	WG 7197	167	WH 7236	168		
WF 7240	166	WG 7200	167	WH 7250	168		
WF 7250	166	WG 7215	167	WHC 7120	163		
WF 7260	166	WG 7220	167	WHC 7135	163		
WF 7265	166	WG 7230	167	WHC 7150	163		







# Router Bit Sets



**Door Set**

**SE5900E**  
Round Raised Panel Bit

**SE6001**  
Stile and Rail Bit



**Basic Set-12**

**SE1067**  
1/2" Straight Bit

**SE1504**  
3/4" V-Groove Bit

**SE1803**  
1/4" Radius Cove

**SE1901**  
1-1/4" Rabbet Bit

**SE2006**  
1/4" Radius Roundover

**SE2009**  
1/2" Radius Roundover

**SE2202**  
5/32" Radius Roman  
Ogee

**SE2305**  
45 Degree Chamfer Bit

**SE2405**  
1/2" Trim Bit



**CNC Set**

**SRU120**  
1/4" S/C Spiral Upcut

**SRD220**  
1/4" S/C Spiral Downcut

**SRU165**  
1/2" S/C Spiral Upcut

**SRD265**  
1/2" S/C Spiral Downcut

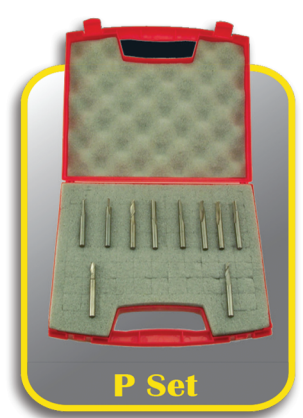
**SUD555**  
S/C 1/2" Dia x 1-1/4" CL  
Compression

**SUD573**  
S/C 1/2" Dia x 2" CL  
Compression

**SE1507**  
C/T 1-1/2" Dia V Groove Bit

**SE5610**  
C/T MDF Bit-Bead

**SE5710**  
C/T MDF Bit-Cove



**P Set**

**SRU120**  
1/4" S/C Spiral Upcut

**SPL100**  
1/8" S/C Straight O Flute

**SPL110**  
3/16" S/C Straight O Flute

**SPL120**  
1/4" S/C Straight O Flute

**SPL220**  
1/4" S/C Straight O Flute  
2 Flute

**SOU100**  
1/8" S/C Spiral O Flute

**SOU120**  
1/4" S/C Spiral O Flute

**SOU323**  
1/4" S/C Multi Grind  
Polished O Flute

**SPR200**  
1/8" Radius O Flute  
1/8" Material

**SPR220**  
1/4" Radius O Flute  
1/4" Material



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