

Southeast **T**ool

High Performance Cutting Tools



2017 CATALOG

WWW.SOUTHEASTTOOL.COM

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**. 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		3 FLUTE UPCUT SLOW SPIRAL ROUGHERS	29
FLUSH TRIM BITS	10	1+1 COMPRESSION BITS	29
BEVEL TRIM BITS	10	1+1 COMPRESSION - LEFT-HAND	29
FLUSH AND BEVEL TRIM BIT (DOUBLE ENDED)	10	2+2 COMPRESSIONS	30
DADO TRIM BITS	10	2+2 COMPRESSIONS - MORTISE	30
HOLE AND FLUSH TRIM BITS	10	2+2 COMPRESSIONS - MD	31
V-GROOVING BITS	10	2+2 COMPRESSIONS - MD MORTISE	31
FLUSH AND BEVEL TRIM BITS	11	2+2 COMPRESSIONS - HD	31
RIP AND SLOTTING BITS	11	2+2 COMPRESSIONS - LEFT-HAND	32
ROUND BOTTOM VEINING BITS (1 FLUTE)	11	2+2 COMPRESSIONS W/ CHIPBREAKERS	32
ROUND BOTTOM VEINING BITS (2 FLUTE)	11	3+3 COMPRESSIONS	32
2 FLUTE UPCUT BALL NOSE	11	3+3 COMPRESSIONS - MD	33
TAPERED BALL NOSE - UPCUT	11	3+3 COMPRESSIONS - HD	33
COVE NOSE SPIRAL BIT	12	4 FLUTE DOWNCUT FINISHING/ROUGHER	33
FLAT BOTTOM VEINING BITS (2 FLUTE)	12	4 FLUTE UPCUT FINISHING/ROUGHER	33
LINER BITS	12	4+4 COMPRESSIONS	34
ENGRAVING BITS	12	4+4 FINISHING/ROUGHER COMPRESSIONS	34
STRAIGHT BIT - 1 FLUTE		CARBIDE TIPPED STRAIGHT BITS	
(GENERAL PURPOSE APPLICATION)	12	1 FLUTE STRAIGHT	34
STRAIGHT BIT - 2 FLUTE		2 FLUTE STRAIGHT	35
(GENERAL PURPOSE APPLICATION)	13	2 FLUTE STRAIGHT	36
SOLID CARBIDE FIBERGLASS BITS	13	2 FLUTE LEFT-HAND STRAIGHT	37
SOLID CARBIDE WOOD SCREW SLOT BITS	13	2 FLUTE STRAIGHT 3/4 SHANK	37
FLUSH TRIM BITS	14	2 FLUTE MORTISE STRAIGHT	37
2 FLUTE FLUSH TRIM DOWNCUT BIT	14	TEMPLATE STRAIGHT	37
2 FLUTE FLUSH TRIM UPCUT BIT	14	TEMPLATE STRAIGHT WITH OVERSIZED BEARING	37
2 FLUTE FLUSH TRIM COMPRESSION BIT	14	INSERT TEMPLATE STRAIGHT	38
CHAMFER 2+2 COMPRESSION BITS	14	STAGGERTOOTH STRAIGHT FLUTE	38
NEW SOLID CARBIDE MOAB-COATINGS		STAGGERTOOTH STRAIGHT OPPOSITE SHEAR	38
(Mother Of All Bits)		CENTER PILOT STAGGERTOOTH	38
2+2 COMPRESSION MD SERIES MOAB-PLUS COATING	15	PLUNGE PANEL PILOT - 1 FLUTE	39
3+3 COMPRESSION MD SERIES MOAB-PLUS COATING	15	PLUNGE PANEL PILOT - 2 FLUTE	39
2+2 COMPRESSION HD SERIES MOAB-PLUS COATING	15	PANEL PILOT - HSS - 1 FLUTE STRAIGHT	39
3+3 COMPRESSION HD SERIES MOAB-PLUS COATING	15	PANEL PILOT - HSS SPIRAL - 1 FLUTE	39
2 FLUTE SPIRAL DOWNCUT MD SERIES MOAB-PLUS COATING	16	FLUSH TRIM (2 FLUTE)	39
2 FLUTE SPIRAL UPCUT MD SERIES MOAB-PLUS COATING	16	FLUSH TRIM (3 FLUTE)	40
DIAMOND TIPPED BITS		FLUSH TRIM DOUBLE BEARING	40
DIAMOND-TIPPED ROUTER BITS • PCD (1+1 DESIGN)	16	FLUSH TRIM V-GROOVE	40
DIAMOND-TIPPED T-SLOT BITS • PCD (2+1 DESIGN)	16	OVERHANG	40
DIAMOND-TIPPED T-SLOT BITS • PCD (2+1 DESIGN)	16	GLUE SPACE FLUSH TRIM	40
SOLID CARBIDE PLASTIC BITS		EASY EDGE (NO FILING)	41
O FLUTE STRAIGHT BIT - 1 FLUTE (POLISHED)	17	DOWNSHEAR FLUSH TRIM	41
O FLUTE STRAIGHT BIT - 1 FLUTE (POLISHED) - LEFT-HAND	17	SCREW-ON MORTISE - INSERT	41
O FLUTE STRAIGHT BIT - 2 FLUTE (POLISHED)	17	SCREW-ON MORTISE - ARBORS	41
O FLUTE ROUNDING EDGE STRAIGHT FLUTE - 1 FLUTE	18	SCREW-ON MORTISE - CARBIDE-TIPPED	42
O FLUTE ROUNDING EDGE STRAIGHT FLUTE - 2 FLUTE	18	CARBIDE TIPPED FORM BITS	
O FLUTE ROUNDING EDGE SPIRAL BIT - 1 FLUTE	18	BOWL AND TRAY	42
O FLUTE UPCUT BIT - 1 FLUTE (GENERAL PURPOSE)	18	CORE BOX TEMPLATE	43
O FLUTE DOWNCUT BIT - 1 FLUTE (GENERAL PURPOSE)	18	CORE BOX BITS	43
O FLUTE UPCUT - 1 FLUTE (REPLACED AS "SOU" SERIES)	19	BALL END BITS	43
O FLUTE UPCUT - 1 FLUTE (POLISHED) - HARD PLASTIC	19	BULL NOSE BITS	44
O FLUTE DOWNCUT - 1 FLUTE (POLISHED) - HARD PLASTIC	19	PLUNGE HAND GRIP	44
O FLUTE UPCUT - 1 FLUTE (POLISHED) - SOFT PLASTIC	20	OVAL EDGE (HALF-BULL NOSE)	44
O FLUTE DOWNCUT - 1 FLUTE (POLISHED) - SOFT PLASTIC	20	V-GROOVE - 90°	44
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O FLUTE HIGH HELIX UPCUT SPIRAL, 2 FLUTE	21	V-GROOVE - 60°	45
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2 FLUTE DOWNCUT BITS - HD	24	COVE BITS	47
2 FLUTE UPCUT BITS - MD	24	RABBET BITS	47
2 FLUTE UPCUT BITS - HD	24	RABBET BIT KITS	48
2 FLUTE DOWNCUT LEFT-HAND	25	SLOTTING - 2 FLUTE	48
2 FLUTE UPCUT LEFT-HAND	25	SMALL PILOT ROUNDOVER	48
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2 FLUTE UPCUT BITS W/ CHIPBEAKERS	26	BEADING BITS	50
3 FLUTE DOWNCUT BITS	26	BORING POINT ROUNDOVER	50
3 FLUTE UPCUT BITS	26	BORING POINT ROUNDOVER AND EDGE	50
3 FLUTE DOWNCUT SLOW SPIRAL BITS	27	DOUBLE ROUNDOVER	51
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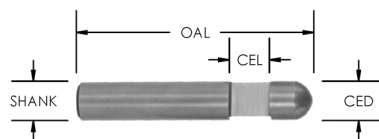
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QUICK CHANGE ADAPTER - BIESSE®	93
CARBIDE-TIPPED COUNTERSINKS	93
CARBIDE-TIPPED COUNTERSINKS	93
CARBIDE-TIPPED COUNTERSINK - ADJUSTABLE 45° ANGLE	93

CARBIDE-TIPPED COUNTERBORES	93	BRAD-POINT DRILL, STYLE NO 19HSL	103
QUICK CHANGE ADAPTER FOR METRIC DRILLS	93	TAPERED BRUSH-BLOCK DRILL, STYLE 19TP	103
DRILLS			
ADJUSTABLE COUNTERBORE, STYLE NO. 5	94	BRAD POINT DRILL, STYLE 20	103
ADJUSTABLE COUNTERBORE, STYLE NO. 5A	94	BRAD-POINT DRILL, STYLE 20BHS	103
CARBIDE-TIPPED COUNTERBORE, STYLE NO. 5CT	94	CARBIDE-TIPPED BRAD-POINT DRILL, STYLE 20BCT	104
CARBIDE-TIPPED COUNTERSINK, STYLE NO. 5CT	94	BRAD-POINT DRILL, STYLE NO. 20CT	104
SHORT-LENGTH COUNTERSINKS, STYLE NO. 5C	94	BRAD-POINT DRILL, STYLE 20HS	104
ADJUSTABLE COUNTERSINK, STYLE NO. 5C	94	BRAD-POINT DRILL, STYLE 20HS METRIC	105
SOLID COUNTERBORE, STYLE NO. 5DHS STEP DRILL • 1 PIECE	94	BRAD-POINT DRILL, STYLE 20HSLH	105
SOLID COUNTERSINK, STYLE NO. 5EHS STEP DRILL • 1 PIECE	94	CARBIDE-TIPPED BRAD POINT DRILL, STYLE 20-6CT	105
THREADED-SHANK ADJUSTABLE COUNTERBORE, STYLE NO. 514	95	BRAD-POINT DRILL STYLE 20-6	105
THREADED-SHANK ADJUSTABLE COUNTERSINK, STYLE NO. 514C	95	BRAD-POINT DRILL, STYLE 20-6HS	105
CARBIDE-TIPPED ADJUSTABLE COUNTERBORE, STYLE NO. 514CT	95	GENERAL PURPOSE DRILL, JOBBER LENGTH, STYLE 29 - 118° POINT	106
MORTISING BIT, STYLE NO. 6HS	95	GENERAL PURPOSE DRILL, JOBBER LENGTH, STYLE 29LH - 118° POINT	106
2 Flute • Bi-Directional Cutting	95	GENERAL PURPOSE DRILL, JOBBER LENGTH, METRIC, STYLE 29M	107
VIBRATING MORTISE BIT, STYLE NO. 46HS 2 Flute • Bi-Directional Cutting	95	GENERAL PURPOSE DRILL SETS, JOBBER LENGTH	107
THREADED-SHANK DRILL-POINT DRILL, STYLE NO. 12HS • 90° Point For Woodworking	95	GENERAL PURPOSE DRILL, SHORT LENGTH, STYLE 29S	107
THREADED-SHANK BRAD-POINT DRILL, STYLE 14, 14A, 14ACT	95	GENERAL PURPOSE DRILL, SHORT LENGTH, STYLE 29SLH	108
THREADED-SHANK BRAD-POINT DRILL, STYLE 14AHS	95	GENERAL PURPOSE DRILL, LONG LENGTH, STYLE 29T	108
THREADED-SHANK BRAD-POINT DRILL, STYLE NO. 14BHS	95	GENERAL PURPOSE DRILL, LONG LENGTH, FAST SPIRAL, STYLE 29TF	109
CARBIDE-TIPPED THREADED-SHANK BRAD-POINT DRILLS, STYLE NO. 14CT	95	TAPER-POINT DRILL, JOBBER LENGTH, STYLE 29JTP	109
Metric CARBIDE-TIPPED THREADED-SHANK BRAD-POINT DRILLS, STYLE NO. 14CT	96	TAPER-POINT DRILL, TAPER LENGTH, STYLE 29TTP	110
CARBIDE-TIPPED THREADED-SHANK (EXTENDED)	96	DRILL-POINT 1/2" SHANK DRILL, SILVER & DEMING® •	110
BRAD-POINT DRILLS, STYLE NO. 14ESCT	96	SOLID-CENTER MACHINE	111
THREADED-SHANK (EXTENDED) BRAD-POINT DRILLS, STYLE NO. 14ESHS	96	AUGER BITS, STYLE NO. 26A • Carbon tool steel	111
THREADED-SHANK (EXTENDED) BRAD-POINT DRILLS, STYLE NO. 14ESHS-L	96	AUGER BITS, STYLE NO. 26F	111
THREADED-SHANK BRAD-POINT DRILLS, STYLE NO. 14HS	96	POWER POLE AUGER BIT	112
THREADED-SHANK BRAD-POINT DRILLS, STYLE NO. 14HSL	96	STYLE 26PP • CARBON TOOL STEEL	112
THREADED-SHANK BRAD-POINT DRILLS, STYLE NO. 14R	96	DRILL-POINT DRILL, STYLE 32HS	112
CARBIDE-TIPPED ADJUSTABLE COUNTERSINK, STYLE 4CT	97	SELF CENTERING DRILL GUIDES (Vix® Bits)	112
TAPER SHELL COUNTERSINK, STYLE 4	97	REPLACEMENT DRILLS (VIX® BITS)	112
COUNTERSINK DRILLS, STYLE 5B	97	REPLACEMENT SPRINGS (VIX® BITS)	112
BRAD-POINT DRILL, STYLE 5BLHS	97	REPLACEMENT GUIDES (VIX® BITS)	113
COUNTERSINK BRAD-POINT DRILL, STYLE 5BPHS	97	DEPTH COLLARS & SETS	113
COUNTERSINK BRAD-POINT DRILL, STYLE 5BPHS-LH	97	CHUCK, STYLE 1	113
COUNTERSINK DRILL-POINT DRILL, STYLE 5HS	98	FORSTNER® BITS	114
COUNTERSINK DRILL-POINT DRILL, STYLE 5HSLH	98	SPADE BITS	115
V-POINT COUNTERSINK DRILL, STYLE 5VHS	98	INSERT BITS	
COUNTERSINK BRAD-POINT DRILL, STYLE 5-7BPHS	98	2 FLUTE FLUSH TRIM INSERT BITS	116
DRILL-POINT DRILL, STYLE 5-7HS	98	1 FLUTE INSERT STRAIGHT BITS	116
COUNTERSINK BRAD-POINT DRILL, STYLE 5-8BPHS	98	2 FLUTE INSERT STRAIGHT BITS	116
DRILL-POINT DRILL, STYLE 5-8HS	98	2 FLUTE INSERT TEMPLATE BITS	116
BRAD-POINT DRILL, STYLE 8BPHS	98	1 FLUTE V-GROOVE BIT	116
BRAD-POINT DRILL, STYLE 8BPHSLH	99	22 DEGREE BEVEL BITS • 2 FLUTE	117
STRAIGHT SHANK BRAD-POINT DRILL, STYLE 13	99	45 DEGREE BEVEL BITS • 2 FLUTE	117
BRAD-POINT DRILL, STYLE 13B	99	INSERT COMPRESSION BITS • 2+2	117
CARBIDE-TIPPED COUNTERSINK, STYLE 8CT - 82°	99	45 DEGREE INSERT BIT • 1 FLUTE	117
DRILL-POINT DRILL, STYLE 8HS	99	INSERT SPOILBOARD SURFACING CUTTERS - STRAIGHT (for MDF and Particleboard)	117
DRILL-POINT DRILL, STYLE 8HSLH	100	INSERT SPOILBOARD SURFACING CUTTERS - UP-SHEAR (for Balsa Core Material)	118
MULTI-SPUR COUNTERBORE, STYLE 184	100	INSERT SPOILBOARD SURFACING CUTTERS - ACCESSORIES	118
SPIRAL PLUG CUTTER, STYLE 9B	100	2 WING COPE (STILE) & STICK (RAIL) BITS - FACE DOWN	118
BRADPOINT DRILL, STYLE 13L	100	2 WING COPE (STILE) & STICK (RAIL) BITS - FACE DOWN - INSERTS	118
BRADPOINT DRILL, STYLE 13S	101	2 WING COPE (STILE) & STICK (RAIL) BITS - FACE UP	118
CARBIDE-TIPPED BRAD POINT DRILL, STYLE 13CT	101	2 WING COPE (STILE) & STICK (RAIL) BITS - FACE UP - INSERTS	119
BRADPOINT DRILL, STYLE 19	101	2 WING RAISED PANEL BITS	119
CARBIDE-TIPPED BRAD POINT DRILL, STYLE 19CT	102	2 WING RAISED PANEL BITS - INSERTS	119
CARBIDE-TIPPED BRAD POINT DRILL, STYLE 19CT METRIC	102	INSERT 3 WING SHAPER - COPE (STILE)	119
BRAD-POINT DRILL, STYLE NO. 19HS	102	INSERT 3 WING SHAPER - STICK (RAIL)	120
BRAD POINT DRILL, STYLE 19HS METRIC	102		

INSERT 3 WING RAISED PANEL CUTTERS	120	ANDI®/WEEKE®/THERMWOOD® CNC CHUCKS	141
INSERT 3 WING BACK PANEL CUTTER	120	BT30 CHUCKS	141
INSERT 3 WING RAISED PANEL TRIM CUTTER	121	BT35 CHUCKS	142
ACCESSORIES FOR 3 WING CUTTER INSERTS	121	HSK E COLLET TOOLHOLDERS	142
SOLID CARBIDE		HSK F COLLET TOOLHOLDERS	142
INSERT REPLACEMENTS AND ACCESSORIES		ER TOOL EXTENDERS	144
STANDARD REVERSIBLE INSERT KNIVES - 2 SIDED 1 HOLE	122	AIRPRO™ NUT	144
STANDARD REVERSIBLE INSERT KNIVES - 4 SIDED 1 HOLE	122	AIRPRO™ NUT SPECIFICATIONS	144
STANDARD REVERSIBLE INSERT KNIVES - 2 SIDED 2 HOLES	123	ER MINI NUTS	145
STANDARD REVERSIBLE INSERT KNIVES - 4 SIDED 2 HOLES	123	ER HIGH-SPEED MINI NUTs	145
(14 CTC) PLUNGE	123	PULL STUDS (RETENTION KNOBS) FOR CNC ROUTERS	145
STANDARD REVERSIBLE INSERT KNIVES - 4 SIDED 2 HOLES	123	ISO 30 ARBORS	146
(26 CTC) PLUNGE	123	HSK 63F ARBORS	146
STANDARD REVERSIBLE INSERT KNIVES - 4 SIDED 3 HOLES	124	TIGHTENING STAND FOR ISO, HSK63 & BT30	147
(37 CTC)	124	CNC ACCESSORIES	
INSERT KNIVES - END ANGLE 1 HOLE	124	DUST COVERS FOR COLLET NUTS	147
INSERT KNIVES - END ANGLE 2 HOLES (14 CTC)	124	SPINDLE TAPER WIPERS	147
INSERT KNIVES - END ANGLE 2 HOLES (26 CTC)	124	COLLET BRUSHES	148
INSERT KNIVES - DOUBLE ANGLE 2 HOLES	124	TORQUE WRENCH	148
INSERT KNIVES - 2 SIDED BACK GROOVE	124	TORQUE WRENCH ACCESSORIES	148
INSERT KNIVES - 2 SIDED FACE GROOVE	125	RETENTION KNOB SOCKETS	149
INSERT KNIVES - 4 SIDED FACE GROOVE	125	FIXED HEAD SQUARE DRIVES	149
INSERT KNIVES - 4 SIDED BACK & CROSS GROOVE	125	CNC ROUTER TABLE PODS	149
INSERT KNIVES - Chipbreaker Knives	125	MEASURING EQUIPMENT	149
INSERT KNIVES - Radius Knives	125	KNIVES	
INSERT KNIVES - Radius Knives	126	PLANER & JOINTER KNIFE SETS - 1/8" THICKNESS	150
INSERT KNIVES - Radius Knives	126	PLANER & JOINTER KNIFE SETS - 3/32" THICKNESS	151
INSERT KNIVES - DOUBLE RADIUS KNIVES (3MM HOLE)	126	PLANER & JOINTER KNIFE SETS - 5/32" THICKNESS	151
INSERT KNIVES - RADIUS PROFILE KNIVES	126	REPLACEMENT KNIVES FOR SYSTEM TERMINUS PLANER HEAD -	152
INSERT KNIVES - LEITZ SYSTEMS® FACE GROOVE	126	HSS	152
INSERT KNIVES - PORTABLE PLANERS BACK GROOVE	127	REPLACEMENT KNIVES FOR SYSTEM TERMINUS PLANER HEAD -	153
INSERT KNIVES - SCRAPER KNIVES 6 DEGREE	127	SOLID CARBIDE	153
INSERT KNIVES - TRIANGLE SPUR KNIVES	127	REPLACEMENT KNIVES FOR SYSTEM TERSA PLANER HEADS	154
INSERT KNIVES - SPUR/GROOVING KNIVES	127	REPLACEMENT KNIVES FOR SYSTEM TERSA	155
INSERT KNIVES - SPUR/GROOVING KNIVES	127	PLANER HEADS - T-1 HSS	155
INSERT KNIVES - SPUR/GROOVING KNIVES	128	REPLACEMENT KNIVES FOR WEINING HEADS	155
INSERT KNIVES - SPUR KNIVES	128	SYSTEM CENTROLOCK-HSS	155
INSERT KNIVES - RADIUS KNIVES	128	REPLACEMENT KNIVES FOR SYSTEM CENTROFIX - HSS	155
INSERT KNIVES - V GROOVE KNIVES	128	REPLACEMENT KNIVES FOR WEINING HEADS	156
INSERT KNIVES - LEITZ® SYSTEMS "BG - TEST"	128	SYSTEM CENTROLOCK - SOLID CARBIDE	156
INSERT KNIVES - QUADROMAT, IMA, MFA	129	REPLACEMENT KNIVES FOR SYSTEM CENTRO-	157
SPIRAL PLUS MOLDER HEADS	129	SOLID CARBIDE	157
SPIRAL PLUS PROFILE SHAPER HEADS	129	Replacement Knives For SuperPac	157
SPIRAL PLUS REPLACEMENT PARTS	130	CARBIDE SAW TIPS AND STB STRIPS	
COMPONENT PARTS FOR INSERT TOOLING - INSERTS	130	STB CARBIDE STRIPS	159
COMPONENT PARTS FOR INSERT TOOLING - INSERTS FOR END	130	WBC STYLE - SAW TIPS	160
COMPONENT PARTS FOR INSERT TOOLING - WRENCHES	130	WDC STYLE - SAW TIPS	160
COMPONENT PARTS FOR INSERT TOOLING - SCREWS	130	WEC STYLE - SAW TIPS	161
HSS 60-16 MOLDER BARS - BEVEL BOTTOM - 5/16" THICK	130	WFC STYLE - SAW TIPS	162
HSS 60-16 MOLDER BARS - BEVEL BOTTOM - 1/4" THICK	131	WGC STYLE - SAW TIPS	163
HSS 60-16 MOLDER BARS - FLAT BOTTOM - 5/16" THICK	131	WHC STYLE - SAW TIPS	164
HSS 60-16 MOLDER BARS - FLAT BOTTOM - 1/4" THICK	131	WQC STYLE - SAW TIPS	164
WILLIAM & HUSSEY™	131	WXC STYLE - SAW TIPS	164
CORRUGATED BACK MOLDER HEADS - 2 KNIFE	132	WDC RIGHT STYLE - SAW TIPS	165
CORRUGATED BACK MOLDER HEADS - 4 KNIFE	132	WDC LEFT STYLE - SAW TIPS	165
CORRUGATED BACK MOLDER HEADS - 6 KNIFE	132	WGC RIGHT STYLE - SAW TIPS	165
WORKHOLDING FOR CNC		WGC LEFT STYLE - SAW TIPS	165
(COLLETS, TOOLHOLDERS AND ACCESSORIES)		WA STYLE - SAW TIPS	165
SYOZ 20 FOR WOODWORKING MACHINES (RDO20)	134	WB STYLE - SAW TIPS	166
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ULTRA HIGH-SPEED COATED CLAMPING NUTS	134	WD STYLE - SAW TIPS	166
SPANNER WRENCHES - SYOZ 20 and SYOZ 25	135	WE STYLE - SAW TIPS	167
SHODA® COLLETS (OLD STYLE)	135	WF STYLE - SAW TIPS	167
SHODA® COLLETS (PIGGY BACK)	135	WG STYLE - SAW TIPS	168
SHODA® COLLETS (NEW STYLE)	135	WQ STYLE - SAW TIPS	168
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TG PRECISION COLLETS	138		
HEIAN® COLLETS	139		
ER BEARING NUTS	139		
ER HIGH SPEED COATED NUTS	139		
EASY COLLET REFERENCE SHEET	140		
ER SPANNER WRENCHES	140		
TOOL HOLDERS FOR CNC ROUTERS	141		

SOLID CARBIDE BITS

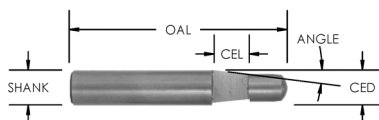
FLUSH TRIM BITS



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

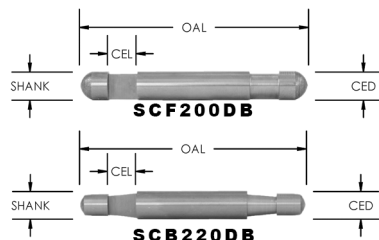
BEVEL TRIM BITS



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

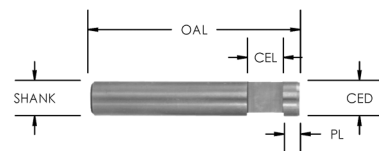
*Left Hand Rotation

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

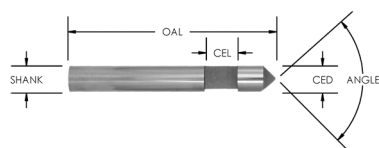
DADO TRIM BITS



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"

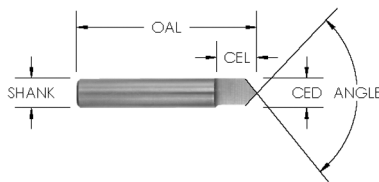
Small Pilot for Shallow Dado

HOLE AND FLUSH TRIM BITS



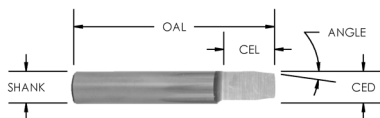
PART #	CED	CEL	SHANK	OAL
SCHF240	1/4"	5/16"	1/4"	2"
SCHF242	1/4"	3/8"	1/4"	1-1/2"
SCHF244	1/4"	1/4"	1/4"	1-1/2"

V-GROOVING BITS



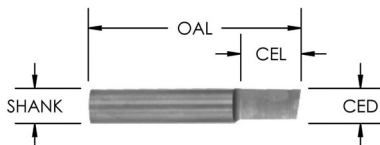
PART #	CED	CEL	SHANK	OAL	ANGLE
SCVG260	1/4"	1/8"	1/4"	1-1/2"	90°
SCVG264	1/4"	7/32"	1/4"	1-1/2"	60°
SCVG264-212	1/4"	7/32"	1/4"	2-1/2"	60°

FLUSH AND BEVEL TRIM BITS



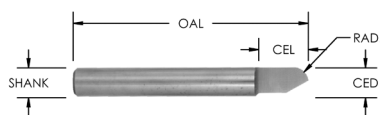
PART #	CED	CEL	SHANK	OAL	ANGLE
SCFB230	1/4"	3/8"	1/4"	1-1/2"	7 DEG

RIP AND SLOTTING BITS



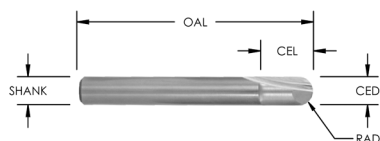
PART #	CED	CEL	SHANK	OAL
SCRS250	1/4"	3/8"	1/4"	1-1/2"

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"

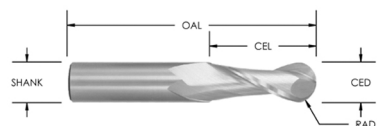
ROUND BOTTOM VEINING BITS (2 FLUTE)



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"

2 FLUTE UPCUT BALL NOSE

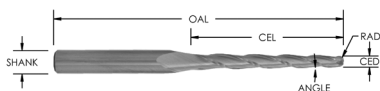
Two flute spiral upcut ball nose. Used for round bottom cuts, carving, fluting and 3D modeling. Used for natural wood, aluminum, wood composites and solid surface.



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

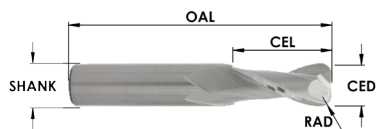
Tapered ball nose upcut spirals. Used for round bottom cuts, carving, fluting and 3D modeling. Used for natural wood, plastic and aluminum.



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"	3"	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

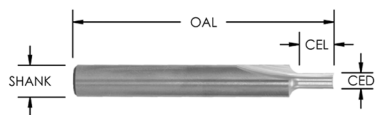
Great for 2D and 3D Carving

COVE NOSE SPIRAL BIT



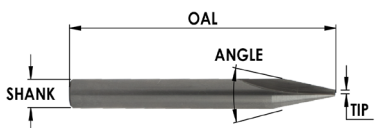
PART #	CED	CEL	SHANK	OAL	RADIUS
SCN118	1/4"	3/4"	1/4"	3"	1/16"
SCN135	3/8"	1"	3/8"	3"	3/32"
SCN155	1/2"	1-1/4"	1/2"	3"	1/8"

FLAT BOTTOM VEINING BITS (2 FLUTE)

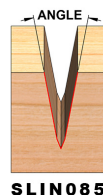
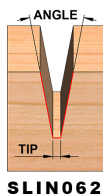


PART #	CED	CEL	SHANK	OAL
SST195	3/32"	5/16"	1/4"	1-1/2"
SST198	1/8"	1/4"	1/4"	2"

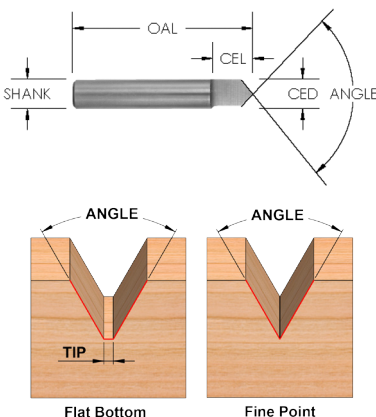
LINER BITS



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



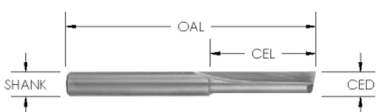
ENGRAVING BITS



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"

STRAIGHT BIT - 1 FLUTE (GENERAL PURPOSE APPLICATION)

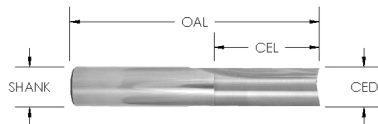
1 Flute straight bits designed to cut a variety of materials. Usage: natural wood and wood composites.



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)

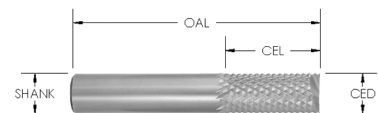
2 flute straight bits designed to cut a variety of materials. Usage: natural wood and wood composites.



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"

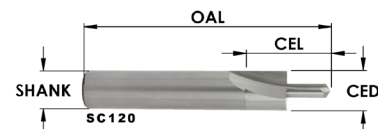
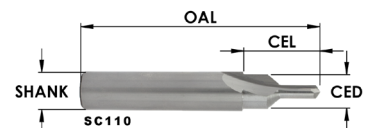
For Plastics and Wood

SOLID CARBIDE FIBERGLASS BITS



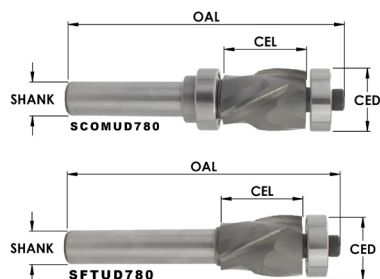
PART #	CED	CEL	SHANK	OAL	DESCRIPTION
SCFB100	1/4"	3/4"	1/4"	2-1/2"	End Mill End
SCFB110	1/4"	3/4"	1/4"	2-1/2"	Plunge V Pt End
SCFB120	3/8"	7/8"	3/8"	2-1/2"	End Mill End
SCFB130	3/8"	7/8"	3/8"	2-1/2"	Plunge V Pt End
SCFB140	1/2"	1"	1/2"	3"	End Mill End
SCFB150	1/2"	1"	1/2"	3"	Plunge V Pt End

SOLID CARBIDE WOOD SCREW SLOT BITS

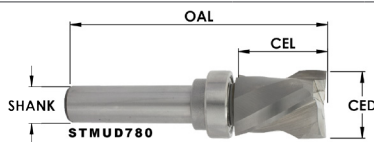


PART #	CED	CEL	SHANK	OAL	USE
SC110	7/16"	15/16"	1/2"	3"	#8 Bugle-Head Round Wood Screws
SC120	1/2"	15/16"	1/2"	3"	#8 Washer Round Wood Screws

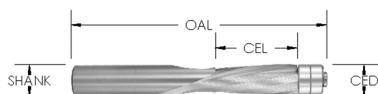
FLUSH TRIM BITS



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

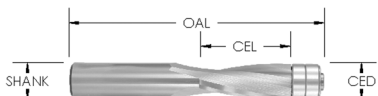


2 FLUTE FLUSH TRIM DOWNCUT BIT



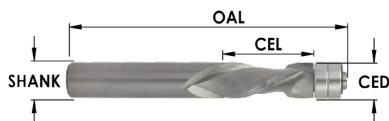
PART #	CED	CEL	SHANK	OAL	BEARING	CLIP
SFTD220	1/4"	1"	1/4"	3"	SBE100	SE-E25
SFTD255	1/2"	1-1/4"	1/2"	3-1/2"	SBE145	SE-E12
SFTD265	1/2"	2"	1/2"	4-1/2"	SBE145	SE-E12

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

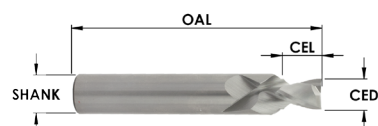
2 FLUTE FLUSH TRIM COMPRESSION BIT



PART #	CED	CEL	SHANK	OAL	BEARING	CLIP
SFTUD555	1/2"	1-1/4"	1/2"	4"	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"

Other MOAB-COATINGS Available



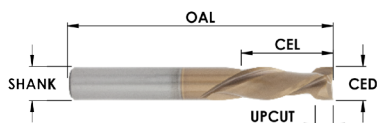
COATING	COLOR	AVAILABILITY	DESCRIPTION
MOAB-Z	WHITE GOLD	SPECIAL ORDER	GENERAL USE
MOAB-BASIC	GOLD	SPECIAL ORDER	GENERAL USE
MOAB-PRO	BLACK	SPECIAL ORDER	GOOD ALL AROUND
MOAB-PLUS*	RED/BROWN	STANDARD	BEST ALL AROUND

SEE MOAB COATING SECTION FOR STANDARD PART WITH MOAB-PLUS COATING

NEW SOLID CARBIDE MOAB-COATINGS (Mother Of All Bits)

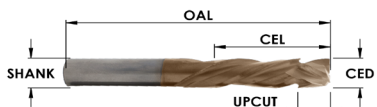
Coated tooling: coatings further extends tool life by reducing damaging effects of heat and oxidation that occurs during cutting operations. Highly recommended for MDF, chipboard with melamine, laminates, veneered plywood, and many plastics.

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"
HMDUD555	1/2"	1-1/4"	1/2"	3"	5/16"
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"

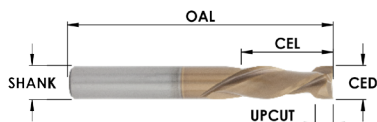
3+3 COMPRESSION MD SERIES MOAB-PLUS COATING



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"

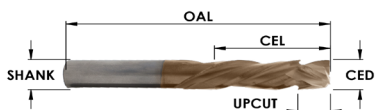
**3/16" Upcut for Mortise Cuts*

2+2 COMPRESSION HD SERIES MOAB-PLUS COATING



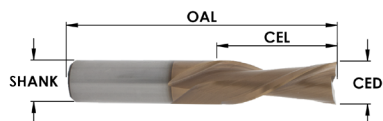
PART #	CED	CEL	SHANK	OAL	UPCUT
HHDUD539	3/8"	7/8"	3/8"	3"	3/16"
HHDUD545	3/8"	1"	3/8"	3"	3/16"
HHDUD551	3/8"	1-1/4"	3/8"	3"	3/16"
HHDUD550	3/8"	1-1/4"	3/8"	3"	3/8"
HHDUD555	1/2"	1-1/4"	1/2"	3"	5/16"
HHDUD558	1/2"	1-1/4"	1/2"	3"	1/2"
HHDUD565	1/2"	1-5/8"	1/2"	3-1/2"	5/16"
HHDUD566	1/2"	1-5/8"	1/2"	3-1/2"	5/8"

3+3 COMPRESSION HD SERIES MOAB-PLUS COATING



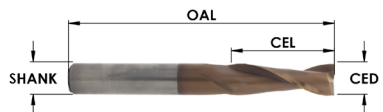
PART #	CED	CEL	SHANK	OAL	UPCUT
HHDUD751	3/8"	1-1/4"	3/8"	3"	3/16"
HHDUD750	3/8"	1-1/4"	3/8"	3"	3/8"
HHDUD754	1/2"	1-1/4"	1/2"	3"	3/16"
HHDUD758	1/2"	1-1/4"	1/2"	3"	1/2"
HHDUD766	1/2"	1-5/8"	1/2"	3-1/2"	5/8"

2 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"

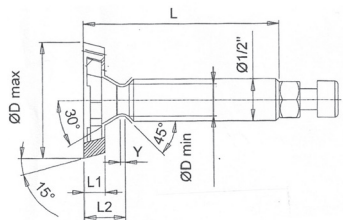
DIAMOND TIPPED BITS

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"	1-3/8"	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"

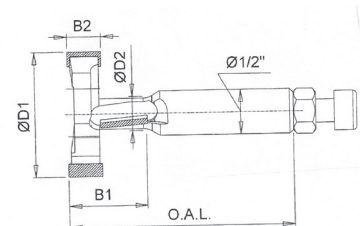
DIAMOND-TIPPED T-SLOT BITS • PCD (2+1 DESIGN)



PART #	MAX CED	LENGTH 1	LENGTH 2	SHANK	OAL	ROTATION
SE293504	1-1/4"	1/4"	1/2"	1/2"	2-3/8"	RH
SE293505	1-3/8"	1/4"	1/2"	1/2"	2-3/8"	RH

Left-Hand Rotation available

DIAMOND-TIPPED T-SLOT BITS • PCD (2+1 DESIGN)



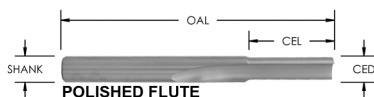
PART #	D1	D2	B1 CEL	B2 CEL	SHANK	OAL	ROTATION
SE293005	1-3/16"	3/8"	5/8"	1/4"	1/2"	2-1/2"	RH
SE293205	1-1/4"	3/8"	3/4"	1/4"	1/2"	2-1/2"	RH
SE293507	1-3/8"	3/8"	3/4"	1/4"	1/2"	2-1/2"	RH
SE293508	1-3/8"	3/8"	7/8"	3/8"	1/2"	2-1/2"	RH

Left-Hand Rotation available

SOLID CARBIDE PLASTIC BITS

O FLUTE STRAIGHT BIT - 1 FLUTE (POLISHED)

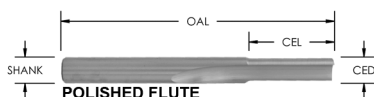
Polished 1 Flute "O" flute straight tools produce curled chips to enhance evacuation and minimize chips welding to the the cutting edge of the tool. Use when upcut or downcut forces are not required. Used for routing hard and soft plastic.



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 - 1 FLUTE (POLISHED) - LEFT-HAND

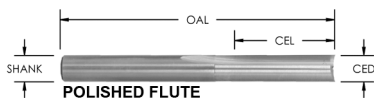
Polished 1 Flute "O" flute straight tools produce curled chips to enhance evacuation and minimize chips welding to the the cutting edge of the tool. Use when upcut or downcut forces are not required. Used for routing hard and soft plastic material.



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 - 2 FLUTE (POLISHED)

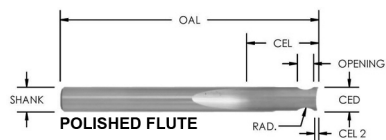
Polished two Flute "O" flute straight tools produce curled chips to enhance chip evacuation and minimize chips welding to the the cutting edge of the tool for a smooth finish. Use when upcut or downcut forces are not required. Used for routing hard and soft plastic.



PART #	CED	CEL	SHANK	OAL
SPL210	1/8"	1/2"	1/4"	2"
SPL212	1/8"	5/8"	1/4"	4"
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

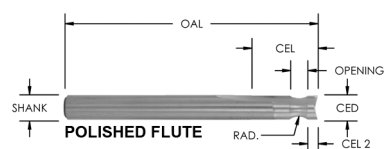
Polished straight 1 Flute edge "O" flute rounding edge design. Recommended for hard plastic, soft plastic and solid surface materials.



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

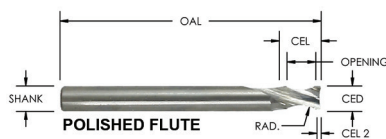
Polished straight two edge "O" flute rounding edge design. The two flute improves edge finish. Recommended for hard plastic, soft plastic and solid surface materials.



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 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 BIT - 1 FLUTE (GENERAL PURPOSE)



PART #	CED	CEL	SHANK	OAL
SOU100	1/8"	3/8"	1/4"	2-1/2"
SOU110	3/16"	1/2"	1/4"	2-1/2"
SOU120	1/4"	3/4"	1/4"	2-1/2"
SOU123	1/4"	1-1/4"	1/4"	3"
SOU135	3/8"	1"	3/8"	3"
SOU136	3/8"	1-5/8"	3/8"	3-1/2"
SOU160	1/2"	1-5/8"	1/2"	3-1/2"

O FLUTE DOWNCUT BIT - 1 FLUTE (GENERAL PURPOSE)



PART #	CED	CEL	SHANK	OAL
SOD200	1/8"	3/8"	1/4"	2-1/2"
SOD210	3/16"	1/2"	1/4"	2-1/2"
SOD220	1/4"	3/4"	1/4"	2-1/2"
SOD223	1/4"	1-1/4"	1/4"	3"
SOD235	3/8"	1"	3/8"	3"
SOD236	3/8"	1-5/8"	3/8"	3-1/2"
SOD260	1/2"	1-5/8"	1/2"	3-1/2"

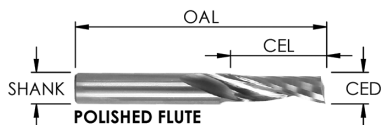
O FLUTE UPCUT - 1 FLUTE (REPLACED AS "SOU" SERIES)



PART #	REPLACEMENT
SPOU100	replaced by SOU302
SPOU110	replaced by SOU313
SPOU120	replaced by SOU323

O FLUTE UPCUT - 1 FLUTE (POLISHED) - HARD 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 hard plastic, and solid surface.

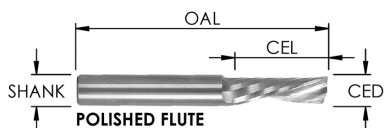


PART #	CED	CEL	SHANK	OAL
SOU300A	1/8"	1/4"	1/8"	2"
SOU300B	1/8"	1/2"	1/8"	2"
SOU300	1/8"	1/4"	1/4"	2"
SOU302	1/8"	1/2"	1/4"	2"
SOU303	1/8"	3/4"	1/4"	2-1/2"
SOU311	3/16"	3/8"	1/4"	2"
SOU313	3/16"	5/8"	1/4"	2"
SOU315	7/32"	3/4"	1/4"	2-1/2"
SOU320	1/4"	3/8"	1/4"	2"
SOU323	1/4"	3/4"	1/4"	2-1/2"
SOU326	1/4"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

**SOU302 replaces SPOU100, SOU313 replaces SPOU110, SOU323 replaces SPOU120*

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

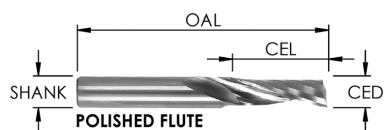
Polished 1 Flute "O" flute spiral downcut tools produce curled chips to enhance evacuation and minimize chips welding to the cutting edge of the tool. The downcut force improves part hold down. The end grinds improve bottom cut finishes. Recommended for cutting hard plastic and solid surface.



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

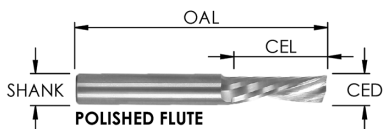
Polished 1 Flute "O" flute spiral upcut tools produce curled chips to enhance evacuation and minimize chips welding to the cutting edge of the tool while improving surface finish. The end grinds improve bottom cut finishes. Recommended for cutting soft plastic, hard plastic, aluminum and solid surface.



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

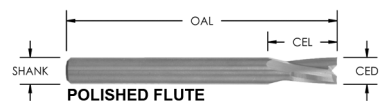
Polished 1 Flute "O" flute spiral downcut tools produce curled chips to enhance evacuation and minimize chips welding to the cutting edge of the tool while improving surface finish. The end grinds improve bottom cut finishes. Recommended for cutting soft plastic, hard plastic, aluminum and solid surface.



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 LOW HELIX UPCUT SPIRAL, 2 FLUTE

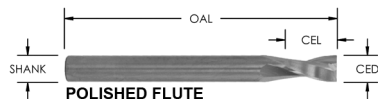
2 flute upcut low helix spiral "O" flute. Upward chip removal. Recommended for hard plastic, soft plastic and solid surface.



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

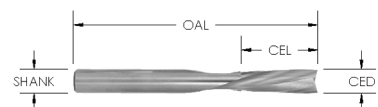
2 flute upcut high helix spiral "O" flute. Evacuates chip upward. Recommended for cutting soft plastic.



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

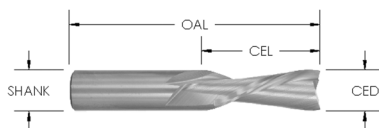
The CARBIDE TIPPED PLASTIC SAW (TRIPLE CHIP GRIND) have been moved to the slotter section of the catalog on page 75.



SOLID CARBIDE SPIRAL BITS

2 FLUTE DOWNCUT BITS

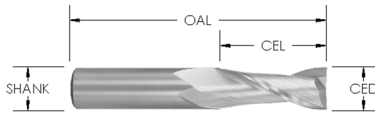
Two flute downcut spiral tools leave a smooth top edge cut. Downcut forces assist holding down material during use. General purpose applications. Recommended for solid surface, wood composites and natural wood.



PART #	CED	CEL	SHANK	OAL
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"
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"
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"

2 FLUTE UPCUT BITS

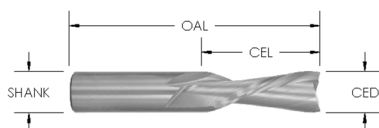
Two flute upcut spiral tools produce a cleaner bottom edge finish and improve chip evacuation. Leaves a smoother bottom edge finish. General purpose applications. Recommended for solid surface, wood composites and natural wood.



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"
SRU105	5/32"	3/4"	1/4"	2"
SRU110	3/16"	3/4"	1/4"	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"
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"

2 FLUTE DOWNCUT BITS - MD

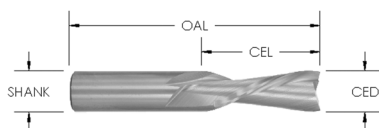
Two flute downcut spiral tools produce a cleaner top edge cut. This MD series is used when "extended tool life" is recommended for cutting adhesive and abrasive materials. Downcut forces assist holding down materials during the cut operation. Recommended cutting MDF, particle board, plywood, melamine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

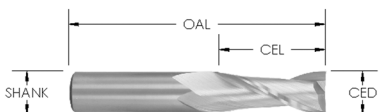
This HD series of tooling extends the max life of tooling at a lower cost than coated tools. Recommended for MDF, chipboard with melamine, laminates and veneered plywood.



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

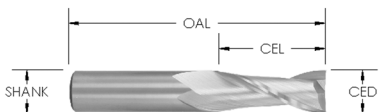
Two flute upcut spiral tools improve chip evacuation and leaves a smoother bottom edge finish. This MD series is used when "extended tool life" is recommended for cutting adhesive and abrasive materials. Recommended cutting MDF, particle board, plywood, melamine and laminates.



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

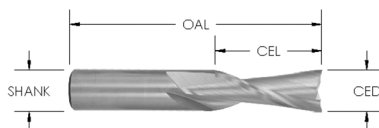
This HD series of tooling extends the max life of tooling at a lower cost than coated tools. Recommended for MDF, chipboard with melamine, laminates and veneered plywood.



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

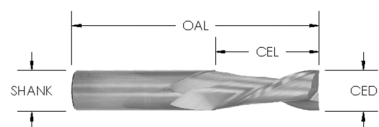
Two flute downcut spiral tools leave a cleaner top edge cut. Downcut forces assist holding down material during use. General purpose applications. Recommended for solid surface, wood composites and natural wood.



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"	1-1/2"	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

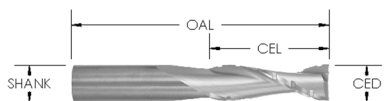
Two flute downcut chipbreakers are designed to reduce chip size for faster feed rates. Downcut forces improve material hold down. These tools are recommended for wood composites and natural wood.



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

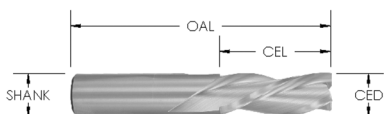
Two flute upcut chipbreakers are designed to reduce chip size for faster feed rates. Upcut forces improve chip evacuation. These tools are recommended for wood composites and natural wood.



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

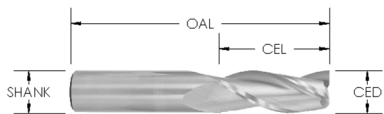
Three flute spiral downcut finishers are designed to improve the finished material upper edges at feed rates similar to two flute spiral spirals. May increase tool life compared to two flute tools. Downcut forces improve material hold down. General purpose applications. These tools cut wood composite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

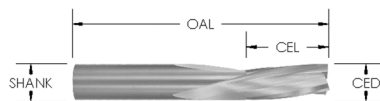
Three flute spiral upcut finishers are designed to improve the finished bottom edges at feed rates similar to two flute spiral spirals. May increase tool life compared to two flute tools. Upcut forces improve chip evacuation. General purpose applications. These tools cut wood composites, solid surface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

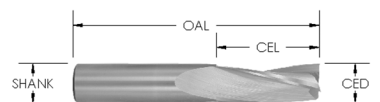


PART #	CED	CEL	SHANK	OAL
SRD702SL	1/4"	1"	1/4"	2-1/2"
SRD713SL	3/8"	1-1/4"	3/8"	3"
SRD724SL	1/2"	1-1/8"	1/2"	3-1/2"
SRD725SL	1/2"	1-1/4"	1/2"	3-1/2"
SRD726SL	1/2"	1-1/2"	1/2"	3-1/2"
SRD728SL	1/2"	1-5/8"	1/2"	4"
SRD729SL	1/2"	1-3/4"	1/2"	4"
SRD745SL	3/4"	2"	3/4"	4"

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.

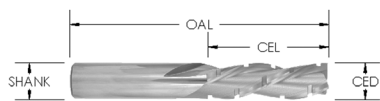


PART #	CED	CEL	SHANK	OAL
SRU602SL	1/4"	1"	1/4"	2-1/2"
SRU611SL	3/8"	3/4"	3/8"	3"
SRU613SL	3/8"	1-1/4"	3/8"	3"
SRU621SL	1/2"	3/4"	1/2"	3"
SRU623SL	1/2"	1-1/8"	1/2"	3"
SRU625SL	1/2"	1-1/4"	1/2"	3"
SRU626SL	1/2"	1-1/2"	1/2"	3-1/2"
SRU627SL	1/2"	1-1/2"	1/2"	4"
SRU629SL	1/2"	1-3/4"	1/2"	4"
SRU645SL	3/4"	2"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

GREAT FOR APPLICATION PROBLEMS

3 FLUTE DOWNCUT BITS W/ CHIPBEAKERS

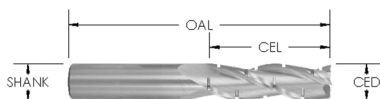
Three flute spiral downcut chipbreakers are designed to reduce chip size for faster feed rates. Better edge finishes and may enhance tool life over two flute tooling. Downcut forces improve material hold down. These tools cut natural wood and wood composites.



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

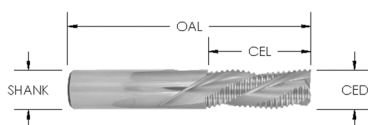
Three flute spiral upcut chipbreakers are designed to reduce chip size for faster feed rates. Better edge finishes and may enhance tool life over two flute tooling. Upcut forces improve chip evacuation. These tools are recommended for natural wood and wood composites.



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

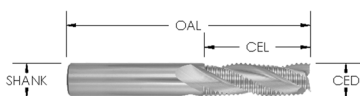
Three flute spiral downcut roughers are designed to increase feed rates when surface finish is not important. Downcut forces improve material hold down. These tools are recommended for natural wood and wood composites.



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.

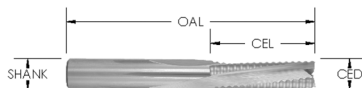


PART #	CED	CEL	SHANK	OAL
SRU320RUF*	3/8"	7/8"	3/8"	2-1/2"
SRU340RUF	3/8"	1-1/4"	3/8"	3"
SRU346RUF	3/8"	1-3/4"	3/8"	4"
SRU350RUF	1/2"	1-1/4"	1/2"	3"
SRU360RUF	1/2"	1-1/2"	1/2"	3-1/2"
SRU368RUF	1/2"	1-3/4"	1/2"	4"
SRU370RUF	1/2"	2"	1/2"	4"
SRU367RUF	1/2"	2-1/4"	1/2"	4"
SRU380RUF	5/8"	2"	5/8"	4"
SRU390RUF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

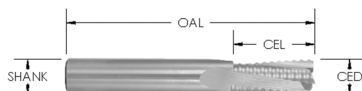
Three flute slow spiral downcut roughers are designed to increase feed rates when surface finish is not important. Downcut forces improve material hold down. These tools are recommended for plastic, natural wood and wood composites.



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"
SRD637SLRUF	5/8"	2-1/8"	5/8"	5"
SRD645SLRUF	3/4"	2"	3/4"	5"

3 FLUTE UPCUT SLOW SPIRAL ROUGHERS

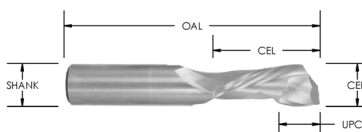
Three flute slow spiral upcut roughers are designed to increase feed rates when surface finish is not important. The lower helix will produce less lifting forces. These tools are recommended for plastic, natural wood and wood composites.



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"	5/8"	4"
SRU545SLRUF	3/4"	2"	3/4"	5"

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.

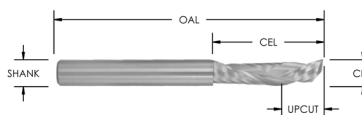


PART #	CED	CEL	SHANK	OAL	UPCUT
SUD500	1/4"	1"	1/4"	2-1/2"	1/4"
SUD505	3/8"	1-1/4"	3/8"	3"	3/8"
SUD506*	3/8"	1-1/4"	3/8"	3"	3/16"
SUD509	1/2"	1-1/8"	1/2"	3"	1/2"
SUD510	1/2"	1-1/4"	1/2"	3"	1/2"
SUD512	1/2"	1-3/8"	1/2"	3-1/2"	1/2"
SUD515	1/2"	1-5/8"	1/2"	3-1/2"	1/2"
SUD531	5/8"	2-1/8"	5/8"	4"	5/8"

**3/16" Upcut For Mortise Cuts*

1+1 COMPRESSION - LEFT-HAND

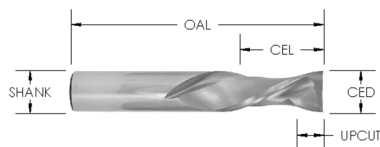
1 Flute edge compression spiral used to cut double sided laminated material, wood composites and natural wood to improve the finish of upper and lower material edges. Should be used for slower feed rate applications.



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"

2+2 COMPRESSIONS

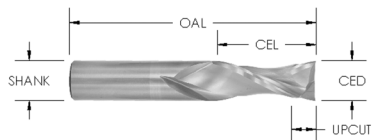
Two flute compression spiral used to cut double sided laminated materials and natural wood to improve the finish of upper and lower material edges.



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.

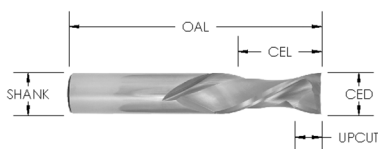


PART #	CED	CEL	SHANK	OAL	UPCUT
SUD448	1/4"	1"	1/4"	2-1/2"	3/16"
SUD460	5/16"	1-1/4"	5/16"	3"	3/16"
SUD462	5/16"	1"	5/16"	3"	3/16"
SUD551	3/8"	1-1/4"	3/8"	3"	3/16"
SUD551A	3/8"	1-1/2"	3/8"	3-1/2"	3/16"
SUD553	1/2"	1"	1/2"	3"	3/16"
SUD553A	1/2"	1"	1/2"	3-1/2"	3/16"
SUD557	1/2"	1-1/4"	1/2"	3"	3/16"
SUD567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



2+2 COMPRESSIONS - MD

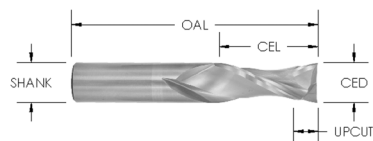
Two flute compression spiral used to improve the finish of upper and lower material edges. This MD series is used when "extended life" is needed for cutting adhesive and abrasive material. Recommended for double sided laminated and veneered material.



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

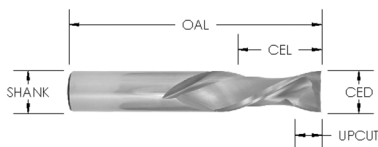
Two flute compression spiral used to improve the finish of upper and lower material edges. This MD series is used when "extended life" is needed for cutting adhesive and abrasive material. Recommended for double sided laminated and veneered material.



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

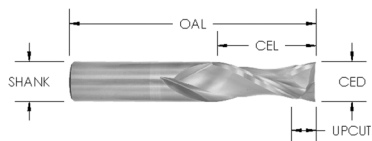
This HD series is used when "maximum tool life" is needed for cutting adhesive and abrasive material at a lower cost than coated tools. Recommended for MDF or chipboard with melamine and laminates. Two flute compression spiral used to improve the finish of upper and lower material edges.



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 - LEFT-HAND

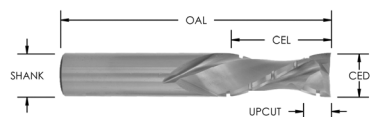
Two flute compression spiral used to cut double sided laminated material and natural wood material to improve the finish of upper and lower material edges.



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.

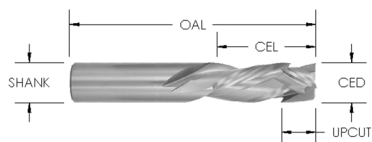


PART #	CED	CEL	SHANK	OAL	UPCUT
SUD448CB*	1/4"	1"	1/4"	2-1/2"	3/16"
SUD462CB	5/16"	1"	5/16"	3"	3/16"
SUD550CB	3/8"	1-1/4"	3/8"	3"	3/8"
SUD551CB*	3/8"	1-1/4"	3/8"	3"	3/16"
SUD551ACB*	3/8"	1-1/2"	3/8"	3-1/2"	3/16"
SUD553CB*	1/2"	1"	1/2"	3"	3/16"
SUD553ACB*	1/2"	1"	1/2"	3-1/2"	3/16"
SUD554CB	1/2"	1-1/8"	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*

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.

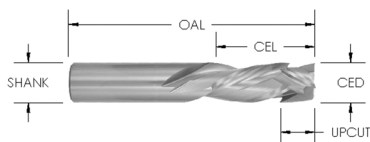


PART #	CED	CEL	SHANK	OAL	UPCUT
SUD750	3/8"	1-1/4"	3/8"	3"	3/8"
SUD751*	3/8"	1-1/4"	3/8"	3"	3/16"
SUD754	1/2"	1-1/8"	1/2"	3"	7/16"
SUD755	1/2"	1-1/4"	1/2"	3"	7/16"
SUD756*	1/2"	1-1/4"	1/2"	3"	3/16"
SUD765	1/2"	1-5/8"	1/2"	3-1/2"	3/4"
SUD790	3/4"	2"	3/4"	4"	7/8"

**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.

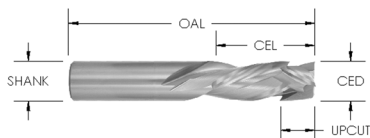


PART #	CED	CEL	SHANK	OAL	UPCUT
SMDUD751*	3/8"	7/8"	3/8"	3"	3/16"
SMDUD751A	3/8"	7/8"	3/8"	3"	3/8"
SMDUD756*	3/8"	1-1/4"	3/8"	3"	3/16"
SMDUD750	3/8"	1-1/4"	3/8"	3"	3/8"
SMDUD790*	1/2"	1-1/4"	1/2"	3"	3/16"
SMDUD755	1/2"	1-1/4"	1/2"	3"	3/8"
SMDUD795	1/2"	1-5/8"	1/2"	3-1/2"	5/8"

**3/16" Upcut for Mortise Cuts*

3+3 COMPRESSIONS - HD

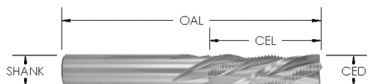
This HD series is used when "maximum tool life" is needed for cutting adhesive and abrasive material at a lower cost than coated tools. Recommended for MDF or chipboard with melamine and laminates. Three flute compression spiral used to improve the finish of upper and lower material edges.



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

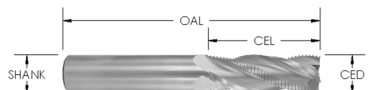
Four flute downcut roughing and finish cut edges in one tool. Downcut improves material hold down. This combination allows for increased feed rates with the simultaneous removals of a roughing tool combined with the smooth finish combined in one tool. Recommended for natural wood and wood composites.



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

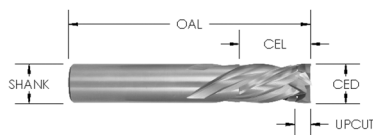
Four flute upcut roughing and finish cut edges in one tool. This combination allows for increased feed rates with the simultaneous removals of a roughing tool combined with the smooth finish combined in one tool. Upcut spiral design improves chip evacuation and improves finish on bottom edges of the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

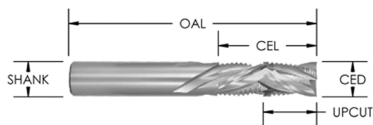
Four flute compression spiral used to cut double sided laminated material, composite and natural wood material to improve the finish of upper and lower material edges. Four flute design produces fine finishes at increased feed rates.



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

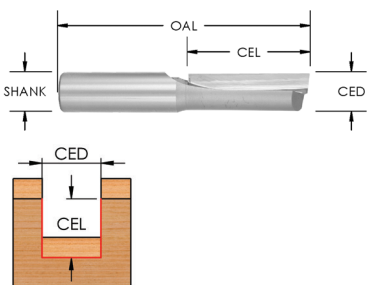
Four flute compression tool with roughing and finish cut edges in one tool. This combination allows for increased feed rates with the simultaneous removals of a roughing tool combined with the fine finishes combined in one tool. Designed to improve the finish of upper and lower material edges. Recommended 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"	7/8"

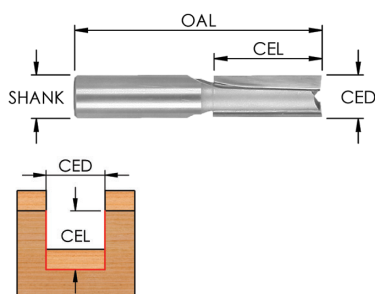
CARBIDE TIPPED STRAIGHT BITS

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"

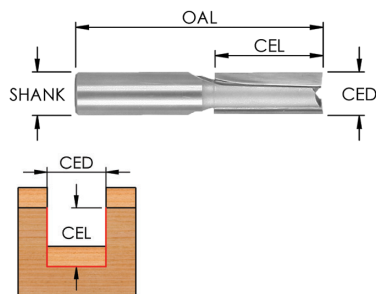
2 FLUTE STRAIGHT



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"	Inkra®
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"	Inkra®
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

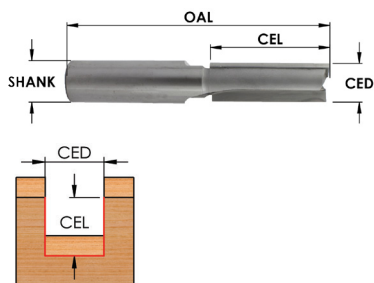


PART #	CED	CEL	SHANK	OAL	
SE1058*	1/4"	3/4"	1/2"	2-5/8"	Incra®
SE1059*	9/32"	3/4"	1/2"	2-1/2"	
SE1060*	5/16"	1"	1/2"	2-3/4"	
SE1061*	3/8"	3/4"	1/2"	2-1/2"	
SE1062*	3/8"	1"	1/2"	2-3/4"	Incra®
SE1063*	3/8"	1-1/4"	1/2"	2-3/4"	
SE1064*	13/32"	3/4"	1/2"	2-1/2"	
SE1065L*	7/16"	1-1/4"	1/2"	3-1/4"	Leigh® 150
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.

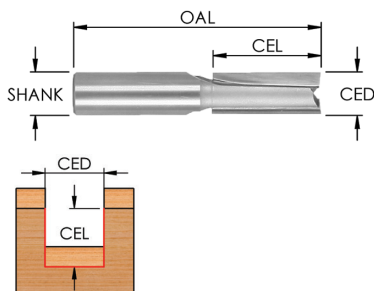
*No Warranty on Breakage

2 FLUTE 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 3/4 SHANK



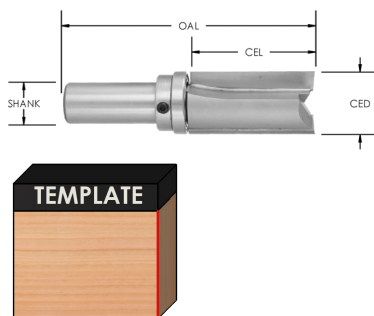
PART #	CED	CEL	SHANK	OAL	ROTATION
SE1105	3/4"	2"	3/4"	4"	RIGHT-HAND
SE1107	3/4"	2-1/2"	3/4"	4-1/2"	RIGHT-HAND
SE1105LH	3/4"	2"	3/4"	5"	LEFT-HAND
SE1107LH	3/4"	2-1/2"	3/4"	5-1/2"	LEFT-HAND

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

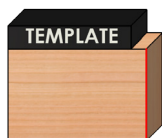
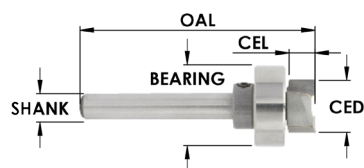


PART #	CED	CEL	SHANK	OAL	BEARING
SE3000A	1/2"	1/8"	1/4"	2"	SBE145
SE3000	1/2"	1/4"	1/4"	2-1/4"	SBE145
SE3001	1/2"	1/2"	1/4"	2-1/4"	SBE145
SE3003	1/2"	3/4"	1/4"	2-3/8"	SBE145
SE3004	1/2"	1"	1/4"	2-3/4"	SBE145
SE3005	1/2"	1-1/4"	1/4"	2-3/4"	SBE145
SE3006	5/8"	1/4"	1/4"	2"	SBE130
SE3007	5/8"	1/2"	1/4"	2-1/4"	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

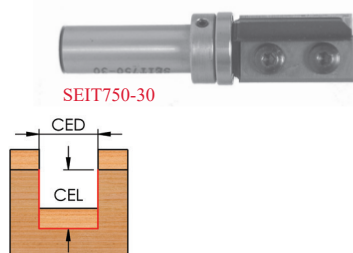
1/2" Shank Bits use SELC-12

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

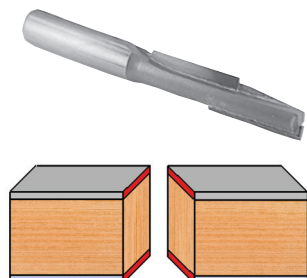
INSERT TEMPLATE STRAIGHT



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

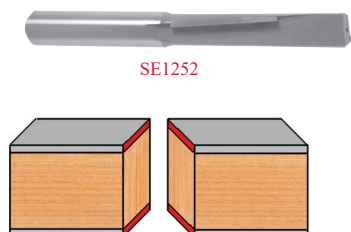
Uses SI-Screw for Insert
Uses SELC-12, SELC-Screw

STAGGERTOOTH STRAIGHT FLUTE



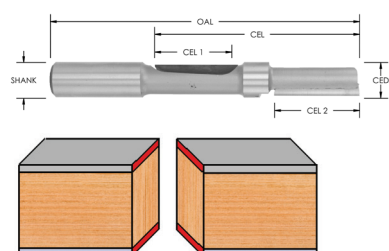
PART #	CED	CEL	SHANK	OAL
SE1201	3/8"	1-1/2"	1/2"	3-1/2"
SE1202	1/2"	1-1/2"	1/2"	3-1/2"
SE1203	1/2"	2"	1/2"	4-1/4"
SE1203-212	1/2"	2-1/2"	1/2"	5-1/2"

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"

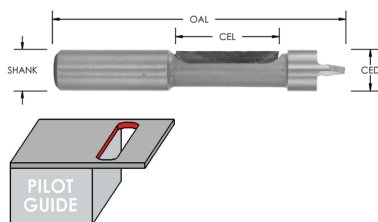
CENTER PILOT STAGGERTOOTH



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.

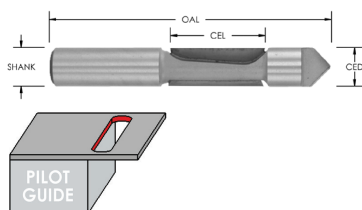
PLUNGE PANEL PILOT - 1 FLUTE



PART #	CED	CEL	SHANK	OAL
SE1700	1/4"	3/4"	1/4"	2-1/2"
SE1701	3/8"	1"	3/8"	2-7/8"
SE1701-Nail	3/8"	1"	3/8"	2-7/8"
SE1702	1/2"	1-3/16"	1/2"	3-1/2"
SE1702-Nail	1/2"	1-3/16"	1/2"	3-1/2"
SE1703	1/2"	2"	1/2"	4-1/8"

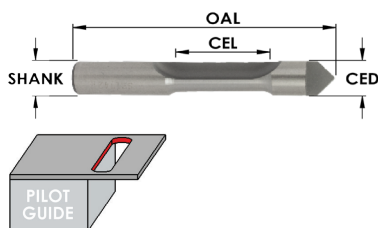
SE1701-Nail and SE1702-Nail have special carbide designed for nail and staple cutting.

PLUNGE PANEL PILOT - 2 FLUTE



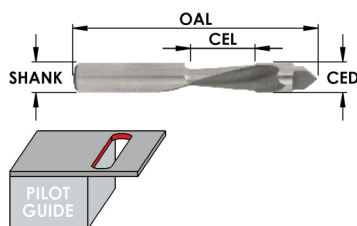
PART #	CED	CEL	SHANK	OAL
SE1704	3/8"	1"	1/4"	3-1/4"
SE1705	3/8"	1"	3/8"	3"
SE1706	1/2"	1-3/16"	1/2"	3-1/2"

PANEL PILOT - HSS - 1 FLUTE STRAIGHT



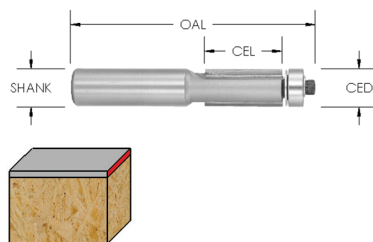
PART #	CED	CEL	SHANK	OAL
SE1740	1/4"	3/4"	1/4"	2-3/4"
SE1741	3/8"	3/4"	3/8"	2-3/4"
SE1742	1/2"	1"	1/2"	3-1/2"

PANEL PILOT - HSS SPIRAL - 1 FLUTE



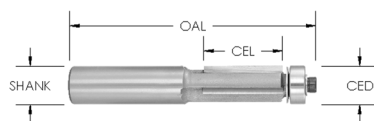
PART #	CED	CEL	SHANK	OAL
SE1750	1/4"	3/4"	1/4"	3"
SE1751	3/8"	3/4"	3/8"	3"

FLUSH TRIM (2 FLUTE)



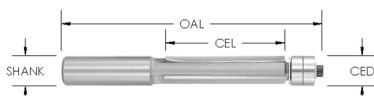
PART #	CED	CEL	SHANK	OAL	BEARING	SCREW
SE2400A	1/4"	3/4"	1/4"	2-1/2"	SBE100	SE2400A-Screw
SE2400	3/8"	1"	1/4"	2-3/4"	SBE105	SE348-38
SE2401	3/8"	1/2"	1/4"	2-1/4"	SBE105	SE348-38
SE2402	1/2"	1"	1/4"	2-3/4"	SBE115	SE540-38
SE2403	1/2"	1/2"	1/4"	2-3/8"	SBE115	SE540-38
SE2404	1/2"	1-1/2"	1/4"	3-1/4"	SBE115	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)



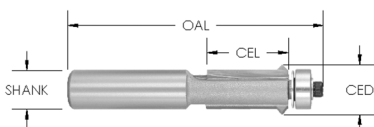
PART #	CED	CEL	SHANK	OAL	BEARING	SCREW
SE2500	1/2"	1"	1/2"	2-3/4"	SBE115	SE540-38
SE2501	1/2"	1/2"	1/2"	2-3/8"	SBE115	SE540-38
SE2502	1/2"	1"	1/2"	3-1/8"	SBE115	SE540-38
SE2504	1/2"	1-1/2"	1/2"	3-3/4"	SBE115	SE540-38
SE2505	1/2"	2"	1/2"	4-1/4"	SBE115	SE540-38

FLUSH TRIM DOUBLE BEARING



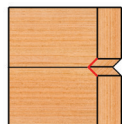
PART #	CED	CEL	SHANK	OAL	BEARING	FLUTES
SE2457	1/2"	1-1/2"	1/2"	4"	SBE115	2
SE2458	1/2"	2"	1/2"	4-1/2"	SBE115	2
SE2554	1/2"	1-1/2"	1/2"	4"	SBE115	3
SE2555	1/2"	2"	1/2"	4-1/2"	SBE115	3

FLUSH TRIM V-GROOVE

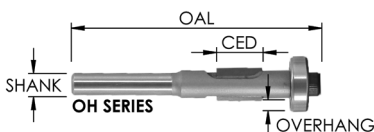


PART #	CED	CEL	SHANK	OAL
SE2425	1/2"	1"	1/4"	2-3/4"
SE2426	1/2"	1"	1/2"	3-1/8"

Use SBE115 Bearing



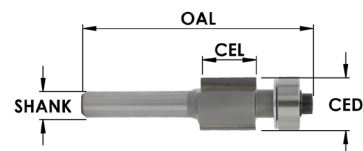
OVERHANG



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

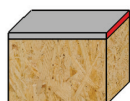


GLUE SPACE FLUSH TRIM

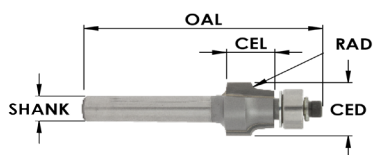


PART #	CED	CEL	SHANK
SE2416*	3/8"	1/2"	1/4"
SE2417*	3/8"	1"	1/4"
SE2418	1/2"	1/2"	1/4"
SE2419	1/2"	1"	1/4"

*Use SBE105 Bearing
Use SBE115 Bearing

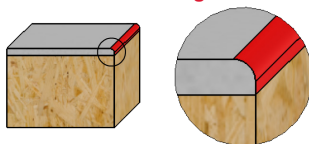


EASY EDGE (NO FILING)

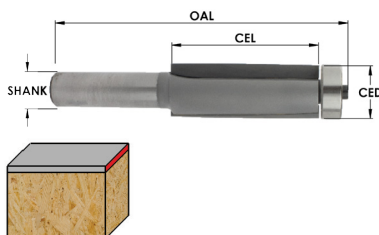


PART #	CED	CEL	SHANK	OAL	RADIUS
SE2420	1/2"	3/8"	1/4"	1-7/8"	1/16"

Use SBE105 Bearing

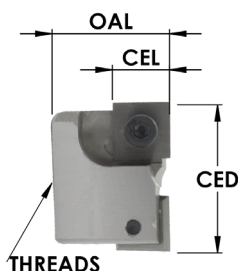


DOWNSHEAR FLUSH TRIM



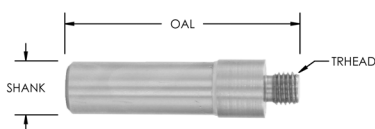
PART #	CED	CEL	SHANK	OAL
SE2562	3/8"	1"	1/4"	2-5/8"
SE2561	1/2"	5/8"	1/4"	2-1/4"
SE2560	3/4"	5/8"	1/4"	2-1/4"
SE2570	3/4"	1"	1/2"	3"
SE2575	3/4"	1-1/2"	1/2"	3-1/2"
SE2580	3/4"	2"	1/2"	4"

SCREW-ON MORTISE - INSERT



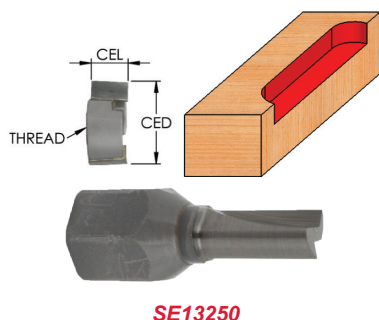
PART #	CED	CEL	Thread	Insert Size
SEIMHB-1250	1-1/4"	12MM	1/4"-28	12 x 12

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

SCREW-ON MORTISE - CARBIDE-TIPPED

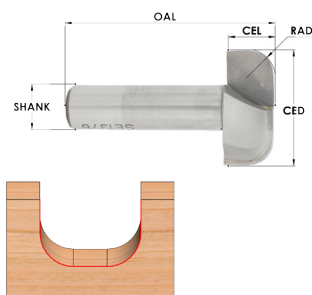


PART #	CED	CED	CEL	OAL	THREAD
SEH13125*	1/8"	.125	9/16"	1-3/8"	1/4"-28
SEH13140*	9/64"	.140	9/16"	1-3/8"	1/4"-28
SEH13202*	3/16+.015"	.202	9/16"	1-3/8"	1/4"-28
SEH13234*	1/4-.015"	.234	9/16"	1-3/8"	1/4"-28
SEH13250*	1/4"	.250	9/16"	1-3/8"	1/4"-28
SEH13265*	1/4+.015"	.265	9/16"	1-3/8"	1/4"-28
SEH13281	9/32"	.281	9/16"	1-3/8"	1/4"-28
SEH13327	5/16+.015"	.327	9/16"	1-3/8"	1/4"-28
SEH13375	3/8"	.375	9/16"	1-3/8"	1/4"-28
SEH13406	3/8+.031"	.406	9/16"	1-3/8"	1/4"-28
SEH13469	15/32"	.469	9/16"	1-3/8"	1/4"-28
SEH13484	31/64"	.484	9/16"	1-3/8"	1/4"-28
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

*Solid Carbide Tip

CARBIDE TIPPED FORM BITS

BOWL AND TRAY

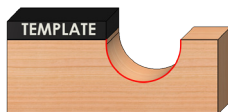
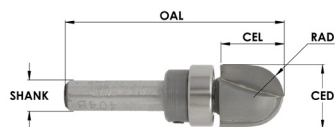


PART #	CED	CEL	SHANK	OAL	RADIUS
SE1370	7/16"	5/16"	1/4"	2-1/8"	1/8"
SE1372	3/4"	5/8"	1/4"	2-3/8"	1/4"
SE1373	1"	1/2"	1/4"	2-3/8"	1/4"
SE1372B*	3/4"	5/8"	1/4"	2-3/8"	1/4"
SE1374	3/4"	5/8"	1/2"	2-3/8"	1/4"
SE1376	1-1/4"	1/2"	1/2"	2-1/4"	1/4"
SE1376B**	1-1/4"	1/2"	1/2"	2-3/8"	1/4"

* Bearing supplied on shank for template routing (SBE120)

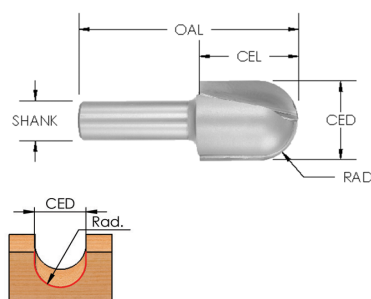
**requires SBE152

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

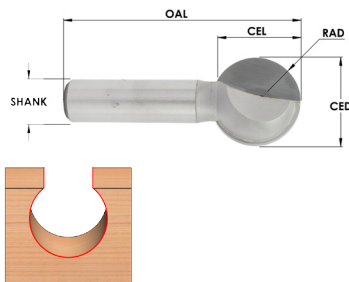
CORE BOX BITS



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"

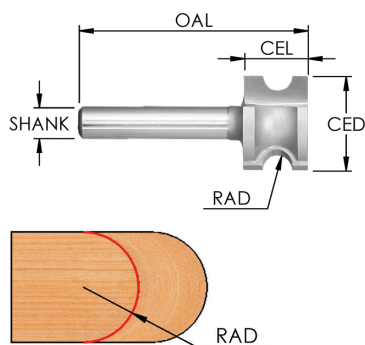
*Solid Carbide Bits

BALL END BITS



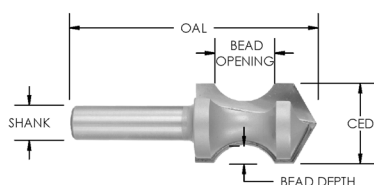
PART #	CED	CEL	SHANK	OAL	RADIUS
SE1450	3/8"	3/8"	1/4"	1-3/4"	3/16"
SE1452	1/2"	1/2"	1/4"	1-3/4"	1/4"
SE1460	1/2"	1/2"	1/2"	2-1/4"	1/4"
SE1462	3/4"	3/4"	1/2"	2-1/2"	3/8"
SE1464	1"	1"	1/2"	2-1/2"	1/2"

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"	2-7/8"	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

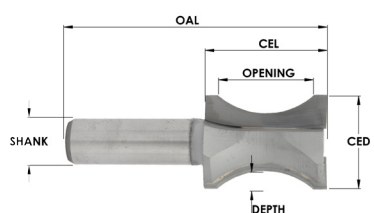


PART #	CED	CEL	SHANK	OAL	BEAD DEPTH	OPENING
SE1440	1-1/8"	1-5/8"	1/2"	3-1/2"	1/4"	7/8"
SE1440B*	1-1/8"	1-5/8"	1/2"	3-1/2"	1/4"	7/8"

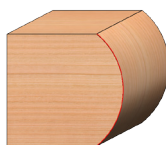
*Uses SBE150 Bearing w/ collar for template guide routing



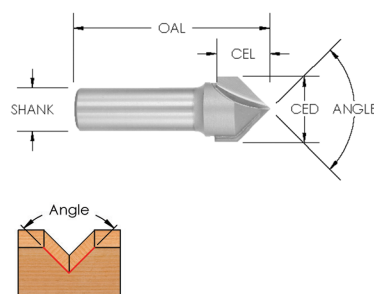
OVAL EDGE (HALF-BULL NOSE)



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"



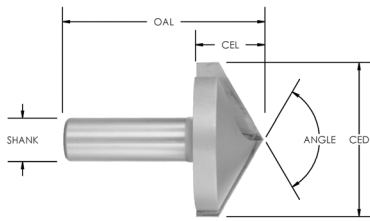
V-GROOVE - 90°



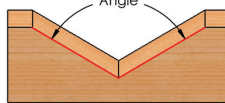
PART #	CED	CEL	SHANK	OAL	CUTTING HEIGHT
SCVG260*	1/4"	5/16"	1/4"	1-1/2"	1/8"
SE1501	3/8"	1/2"	1/4"	1-3/4"	3/16"
SE1502	1/2"	1/2"	1/4"	1-3/4"	7/32"
SE1502A	5/8"	5/8"	1/4"	2"	5/16"
SE1502B	3/4"	11/16"	1/4"	2"	3/8"
SE1503	1/2"	1/2"	1/2"	2-1/4"	1/4"
SE1504	3/4"	5/8"	1/2"	2-1/4"	3/8"
SE1505	1"	3/4"	1/2"	2-3/4"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

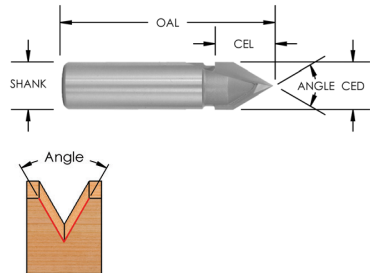
V-GROOVE - 120°



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



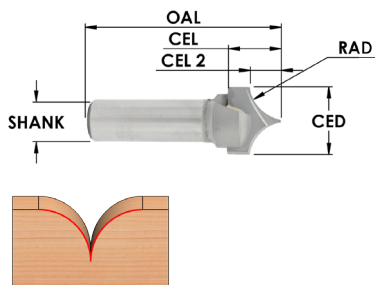
V-GROOVE - 60°



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*

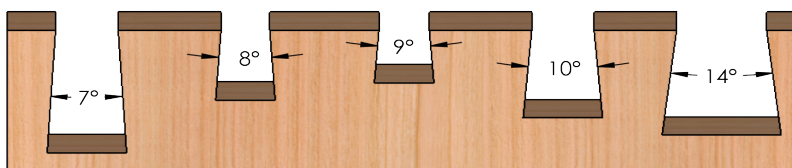
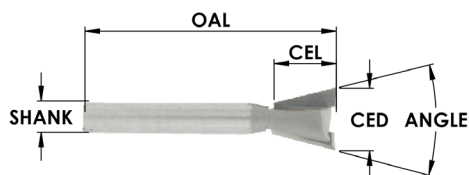
POINT CUTTING ROUNDOVER



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

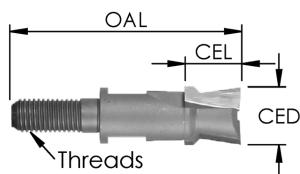


PART #	CED	CEL	SHANK	OAL	Use	ANGLE
SE1601	7/8"	5/8"	1/2"	2-1/2"	Stair Treads	3
SE1625	5/8"	7/8"	1/2"	2-5/8"	Incra®	7
SE1635	3/4"	7/8"	1/2"	2-3/4"	Incra®	7
SE1635LH	3/4"	7/8"	1/2"	2-3/4"	LH Rotation	7
SE1645	7/8"	7/8"	1/2"	2-3/4"	Stair Treads	7
SE1645LH	7/8"	7/8"	1/2"	2-3/4"	Stair Treads	7
SCDT7525*	1/4"	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	0.39	3/8"	1/2"	2"		9
SE1618LH	0.39	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

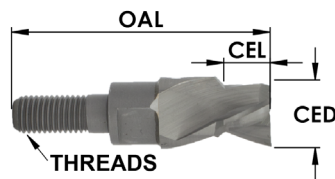
DOVETAIL BITS FOR DODDS® MACHINE



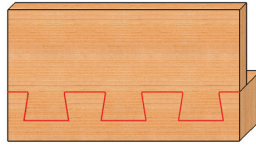
PART #	CED	SHANK	OAL	ANGLE	FLUTE
SE1690R	.550"	5/16"-24	2"	9	2
SE1690L	.550"	5/16"-24	2"	9	2
SE1695R	.550"	3/8"-24	2"	9	2
SE1695L	.550"	3/8"-24	2"	9	2



SOLID CARBIDE DOVETAIL BITS FOR DODDS® MACHINE

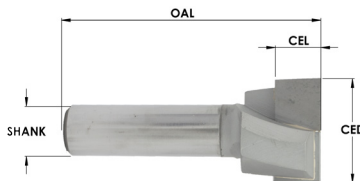


PART #	CED	SHANK	OAL	ANGLE	FLUTE
SC1690R*	.550"	5/16"-24	2"	9	3
SC1690L*	.550"	5/16"-24	2"	9	3

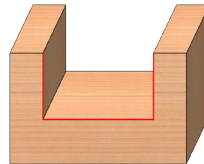


**Solid Carbide and 3-Flute*

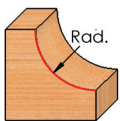
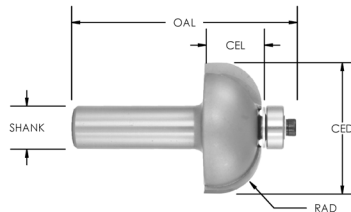
STAIR TREAD AND BOTTOM CLEANING



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



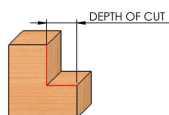
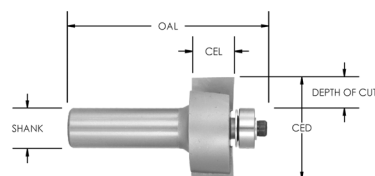
COVE BITS



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

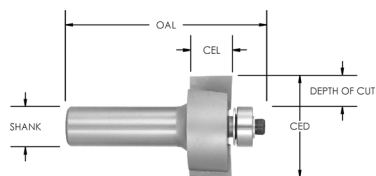
RABBET BITS



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

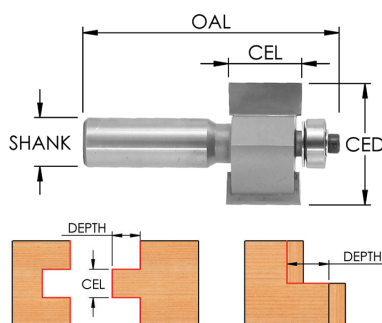
**For different depths of cut, see kits next page.*

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

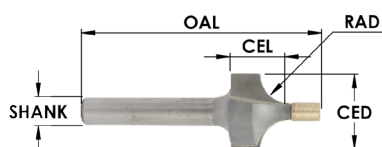


PART #	CED	CEL	SHANK	DEPTH
SE1904	1-1/4"	1/8"	1/4"	3/8"
SE1908	1-1/2"	5/32"	1/4"	1/2"
SE1912	1-1/4"	1/4"	1/4"	3/8"
SE1913	1-1/4"	5/16"	1/4"	3/8"
SE1916	1-1/4"	3/8"	1/4"	3/8"
SE1920	1-1/2"	1/2"	1/4"	1/2"
SE1906	1-1/4"	1/8"	1/2"	3/8"
SE1910	1-1/2"	5/32"	1/2"	1/2"
SE1914	1-1/4"	1/4"	1/2"	3/8"
SE1917	1-1/4"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

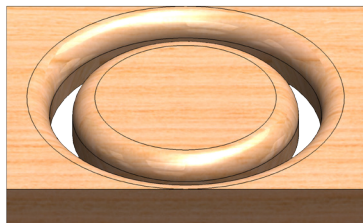
Uses SBE115 Bearing

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

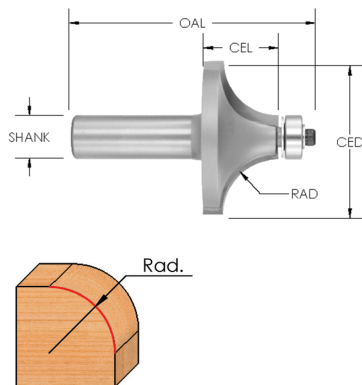
SMALL PILOT ROUNDOVER



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

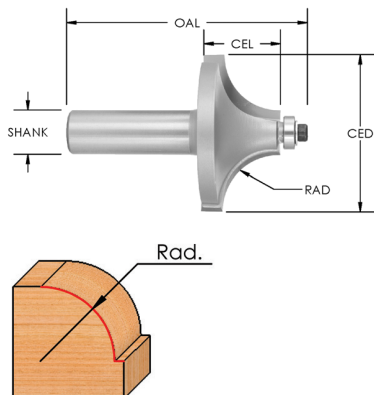


PART #	CED	CEL	SHANK	RADIUS
SE2000A	5/8"	1/4"	1/4"	1/16"
SE2000C	3/4"	1/2"	1/4"	1/8"
SE2000D	13/16"	1/2"	1/4"	5/32"
SE2000	7/8"	1/2"	1/4"	3/16"
SE2001	1"	1/2"	1/4"	1/4"
SE2002	1-1/8"	1/2"	1/4"	5/16"
SE2003	1-1/4"	5/8"	1/4"	3/8"
SE2003A	1-3/8"	11/16"	1/4"	7/16"
SE2004	1-1/2"	3/4"	1/4"	1/2"
SE2005A	3/4"	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

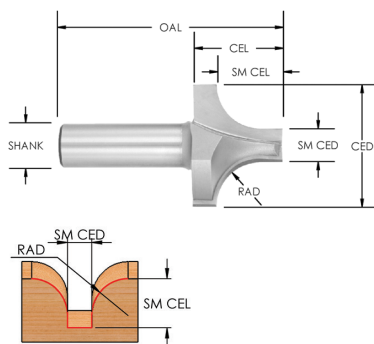


PART #	CED	CEL	SHANK	RADIUS
SEBE2000A	5/8"	1/2"	1/4"	1/16"
SEBE2000C	3/4"	1/2"	1/4"	1/8"
SEBE2000D	13/16"	1/2"	1/4"	5/32"
SEBE2000	7/8"	1/2"	1/4"	3/16"
SEBE2001	1"	1/2"	1/4"	1/4"
SEBE2002	1-1/8"	1/2"	1/4"	5/16"
SEBE2003	1-1/4"	5/8"	1/4"	3/8"
SEBE2003A	1-3/8"	11/16"	1/4"	7/16"
SEBE2004	1-1/2"	3/4"	1/4"	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

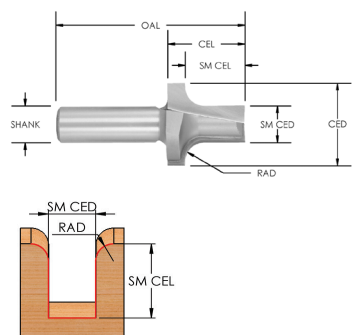
* Use SBE130 Bearing

BORING POINT ROUNDOVER



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

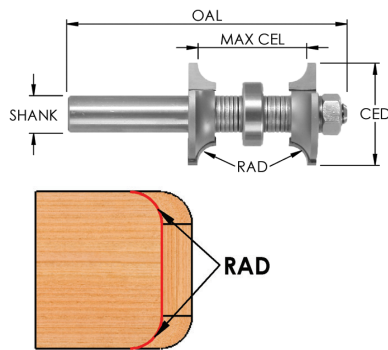
BORING POINT ROUNDOVER AND EDGE



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 ROUNDOVER

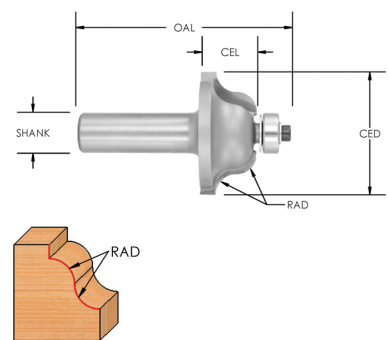


PART #	CED	SHANK	OAL	RADIUS
SE2160	1-1/8"	1/2"	3-3/4"	1/8"
SE2162	1-1/4"	1/2"	3-3/4"	3/16"
SE2164	1-3/8"	1/2"	3-3/4"	1/4"

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

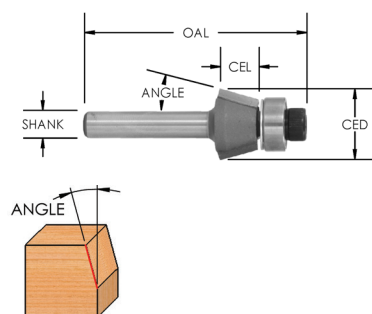
ROMAN OGEE



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

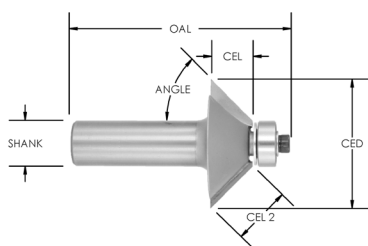


PART #	CEL	CUTTING HEIGHT	SHANK	DEGREE
SE2298*	3/8"	3/8"	1/4"	7°
SE2300	1/2"	1/2"	1/4"	15°
SE2300A	1/4"	1/4"	1/4"	15°
SE2300B	3/8"	3/8"	1/4"	22°
SE2301	1/2"	7/16"	1/4"	25°

Use SBE115 Bearing

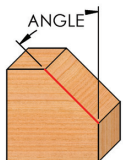
**Use SBE110 Bearing*

CHAMFER - 45°

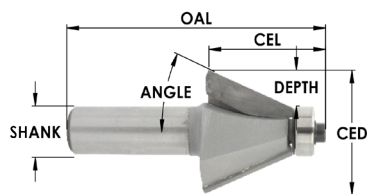


PART #	CEL	SHANK	DEPTH	DEGREE
SE2302	5/8"	1/4"	7/16"	45°
SE2305	5/8"	1/2"	7/16"	45°
SE2306	1-1/8"	1/2"	13/16"	45°
SE2310	1-1/2"	1/2"	1-1/16"	45°

Use SBE115 Bearing

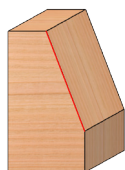


CHAMFER - 22-1/2° & 30°

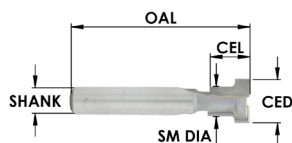


PART #	CEL	SHANK	DEPTH	ANGLE
SE2307	15/16"	1/2"	7/8"	22 1/2°
SE2308A	7/16"	1/4"	3/8"	30°
SE2309	1"	1/2"	7/8"	30°
SE2315	3/8"	1/2"	3/8"	22 1/2°

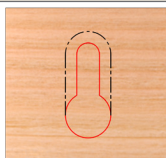
Use SBE115 Bearing



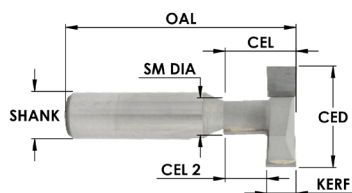
KEYHOLE - 2 FLUTE



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"



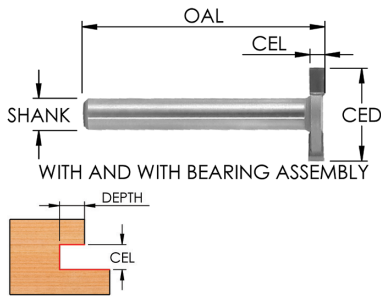
T-SLOT - SLAT WALL



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



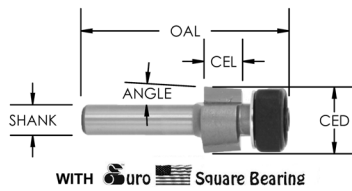
PART #	CED	CEL	SHANK	OAL	CUTTING DEPTH	FLUTES
SE3094	3/4"	1/8"	1/4"	1-7/8"	1/4"	2
SE3098	1"	1/4"	1/4"	2"	3/8"	2
SE3100	1-1/4"	1/4"	1/4"	1-3/4"	1/2"	2
SE3110	1-1/2"	1/4"	1/4"	2"	5/8"	2
SE3114*	21mm	3mm	1/4"	1-7/8"	7.325mm	3

Add B to Part# for Bearing on Shank

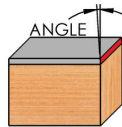
*For Laminate Flooring

Part # with Bearing use a SBE145 Bearing

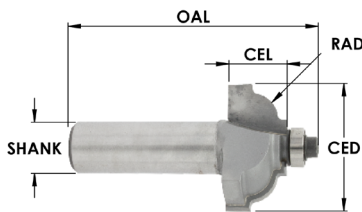
EURO TRIM BITS



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

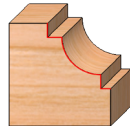


CLASSICAL COVE

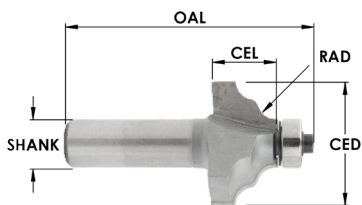


PART #	CED	CEL	SHANK	RAD
SE3160	15/16"	1/2"	1/4"	1/8"
SE3162	1-3/16"	9/16"	1/4"	1/4"
SE3164	15/16"	1/2"	1/2"	1/8"
SE3166	1-3/16"	9/16"	1/2"	1/4"

Use SBE110 Bearing

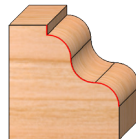


WAVY EDGE

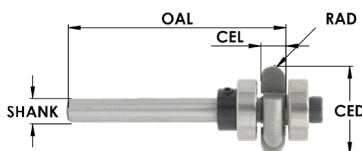


PART #	CED	CEL	SHANK	RAD
SE3170	1-1/4"	3/4"	1/4"	5/32"
SE3172	1-1/4"	3/4"	1/2"	5/32"

Use SBE115 Bearing

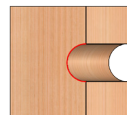


RADIUS EDGE

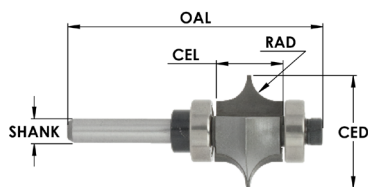


PART #	CED	CEL	SHANK	OAL	RAD
SE3180	7/8"	1/4"	1/4"	2-5/8"	1/8"
SE3182	1"	3/8"	1/4"	2-3/4"	3/16"

Use SBE130 Bearing

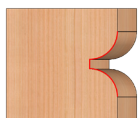


FULL BEAD

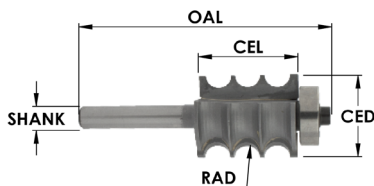


PART #	CED	CEL	SHANK	RAD
SE3190	7/8"	3/8"	1/4"	1/8"
SE3192	1"	1/2"	1/4"	3/16"
SE3194	1-1/8"	5/8"	1/4"	1/4"
SE3196	1-3/8"	7/8"	1/4"	3/8"

Use SBE130 Bearing



TRIPLE BEAD

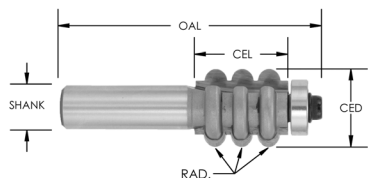


PART #	CED	CEL	SHANK	RAD
SE3200	7/8"	1"	1/4"	1/8"
SE3202	7/8"	1"	1/2"	1/8"

Use SBE130 Bearing



TRIPLE FLUTE

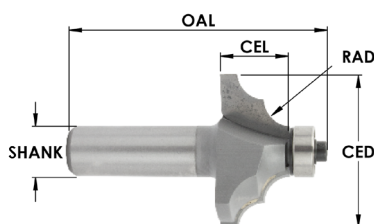


PART #	CED	CEL	SHANK	RAD
SE3203	7/8"	1"	1/4"	1/8"
SE3204	7/8"	1"	1/2"	1/8"

Use SBE130 Bearing

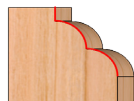


DOUBLE ROUND

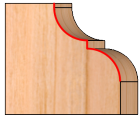
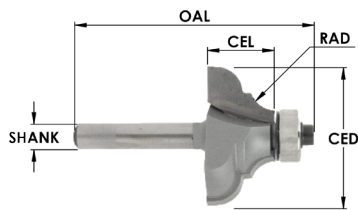


PART #	CED	CEL	SHANK	RAD
SE3205	1-1/8"	1/2"	1/4"	5/32"
SE3206	1-1/2"	11/16"	1/4"	1/4"
SE3207	1-1/8"	1/2"	1/2"	5/32"
SE3207A	1-3/8"	11/16"	1/2"	7/32"
SE3208	1-1/2"	11/16"	1/2"	1/4"

Use SBE115 Bearing



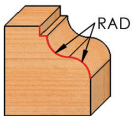
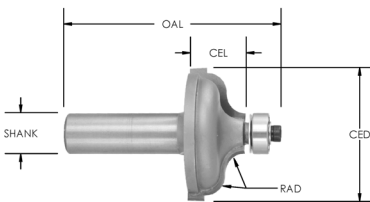
COVE AND BEAD



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

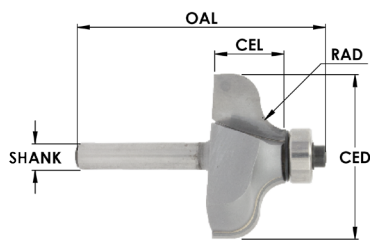
OGEE FILLET



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"

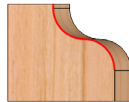
Use SBE115 Bearing

OGEE BITS

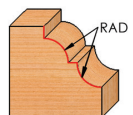
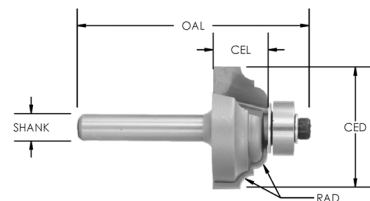


PART #	CED	CEL	SHANK	RAD
SE3220	1-1/8"	1/2"	1/4"	5/32"
SE3224	1-1/2"	11/16"	1/4"	1/4"
SE3222	1-1/8"	1/2"	1/2"	5/32"
SE3226	1-1/2"	11/16"	1/2"	1/4"

Use SBE115 Bearing



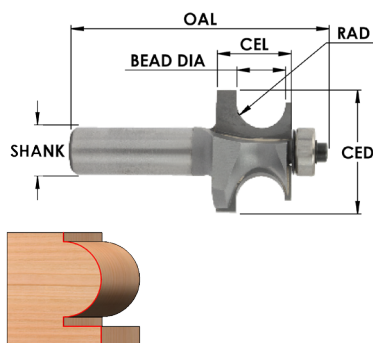
CLASSICAL PATTERN



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

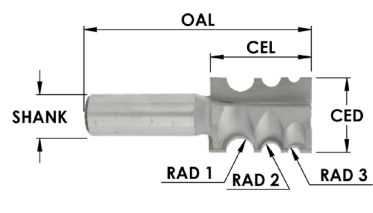
EDGE BEADING



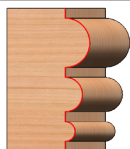
PART #	CED	CEL	SHANK	RADIUS	BEAD DIA
SE3241	13/16"	1/2"	1/4"	3/32"	3/16"
SE3244	7/8"	9/16"	1/4"	1/8"	1/4"
SE3248	15/16"	5/8"	1/4"	5/32"	5/16"
SE3252	1"	5/8"	1/4"	3/16"	3/8"
SE3256	1-1/4"	3/4"	1/4"	1/4"	1/2"
SE3243	13/16"	1/2"	1/2"	3/32"	3/16"
SE3246	7/8"	9/16"	1/2"	1/8"	1/4"
SE3250	15/16"	5/8"	1/2"	5/32"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

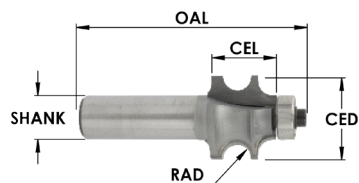
VARIABLE BEADING



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

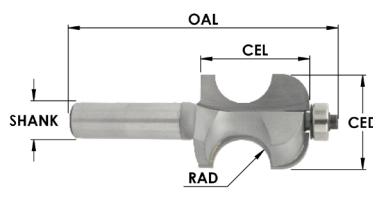


PART #	CED	CEL	SHANK	RADIUS
SE3274	15/16"	5/8"	1/2"	5/32"
SE3276	1-1/4"	1-7/16"	1/2"	3/8"

Use SBE115 Bearing

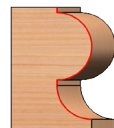


BEAD AND COVE

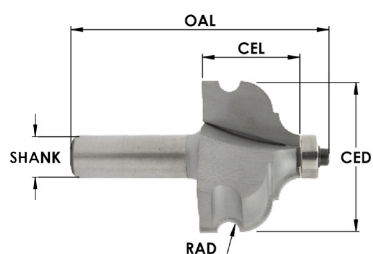


PART #	CED	CEL	SHANK	RADIUS
SE3278	1-1/4"	1-7/16"	1/2"	3/8"

Use SBE115 Bearing



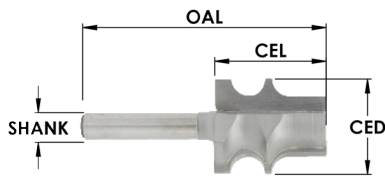
MOLDING BITS



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"

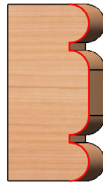
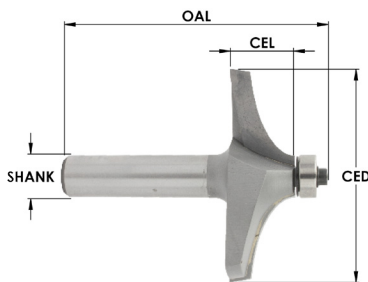
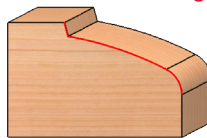


TABLE EDGE



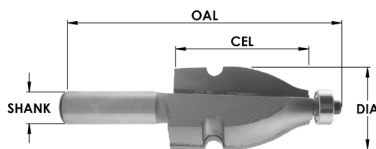
PART #	CED	CEL	SHANK	DEPTH
SE3294	2-1/2"	3/4"	1/2"	1"
SE3296	2-1/2"	3/4"	1/2"	1"

Use SBE115 Bearing



SE3296

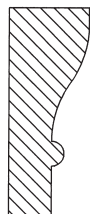
HANDRAIL BIT



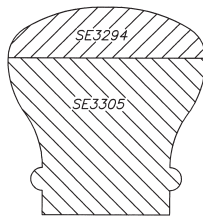
PART #	CED	CEL	SHANK	OAL	BEAD DIA
SE3305	1-1/4"	2"	1/2"	4"	1/4"

Use SBE115 Bearing

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



SE3305

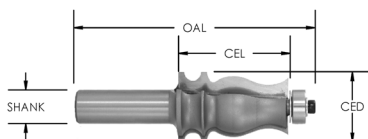
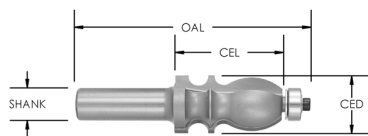


SE3294

SE3305

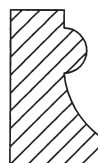
Have a different handrail in mind? Have Southeast Tool quote the router bits or shaper cutters, fax a drawing, or mail a wood sample to Southeast Tool.

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"

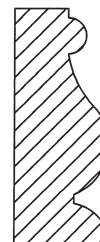
Use SBE115 Bearing



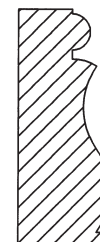
SE3320



SE3324

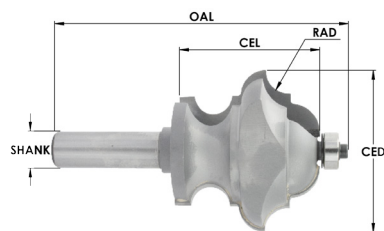


SE3326



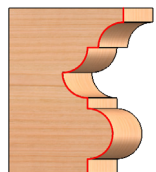
SE3330

CLASSICAL MULITFORM

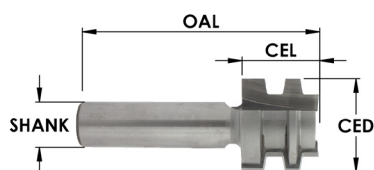


PART #	CED	CEL	SHANK	RADIUS
SE3342	2-1/4"	1-7/8"	1/2"	7/32"

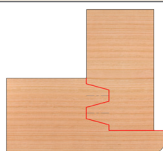
Use SBE115 Bearing



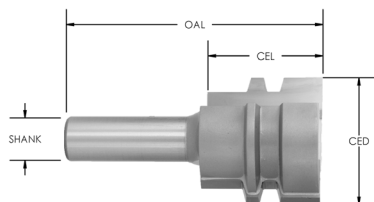
DRAWER LOCK



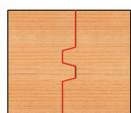
PART #	CED	CEL	SHANK	OAL
SE3350	1-1/16"	3/4"	1/4"	2-5/16"
SE3352	1-1/16"	3/4"	1/2"	2-9/16"



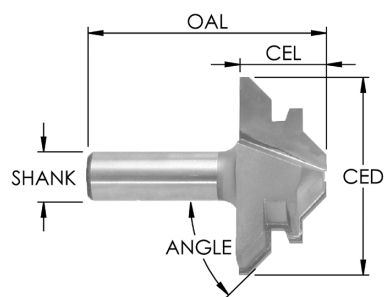
GLUE JOINT



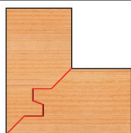
PART #	CED	CEL	SHANK	MATERIAL THICKNESS
SE3354	1-1/2"	1-1/4"	1/2"	1/2" - 1-1/4"



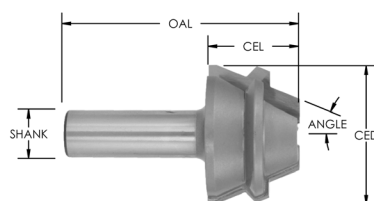
45° LOCK MITER



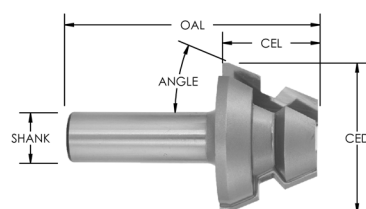
PART #	CED	CEL	SHANK	MAX MATERIAL
SE3360	1-3/4"	3/4"	1/2"	5/8"
SE3362	3-1/2"	1-5/8"	1/2"	1-1/2"



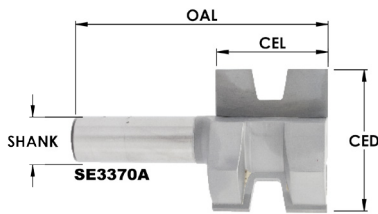
LOCK MITER SET - 22.5°



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



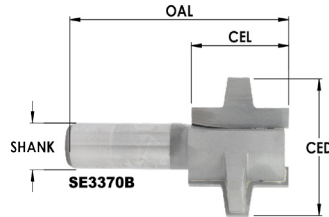
WEDGE TONGUE AND GROOVE



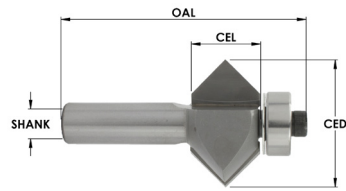
PART #	CED	CEL	SHANK	OAL	MATERIAL THICKNESS
SE3370	1-1/2"	1-1/8"	1/2"	2-5/8"	1/2" - 1-1/8"

2-Piece Set

To order individually:
SE3370A - Tongue
SE3370B - Groove

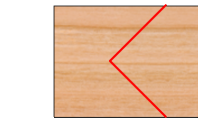


EDGE BANDING SET



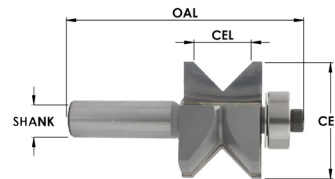
PART #	CED	CEL	SHANK	OAL
SE3400	SET INCLUDES SE3401 AND SE3402			
SE3401	1-1/2"	25/32"	1/2"	2-7/8"
SE3402	1-17/32"	25/32"	1/2"	3-1/16"

Use SBE124 Bearing

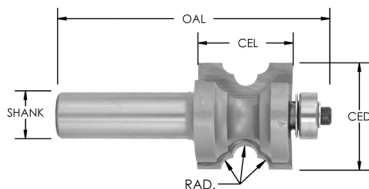


SE3401

SE3402

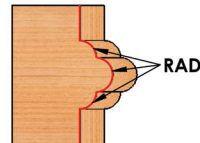


BEAUTY MOLDING

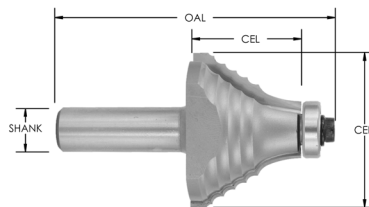


PART #	CED	CEL	SHANK	OAL	RAD
SE3310	1-1/8"	1"	1/2"	2-15/16"	1/8"

Use SBE115 Bearing

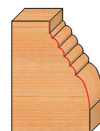


BEADED PICTURE FRAME MOLDING

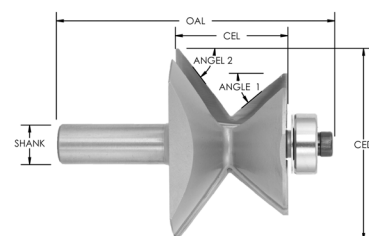


PART #	CED	CEL	SHANK	OAL
SE3315	1-11/16"	1-3/16"	1/2"	3-1/16"

Use SBE130 Bearing

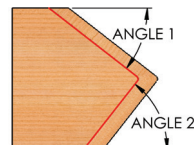


CROWN MOLDING EDGE TRIM

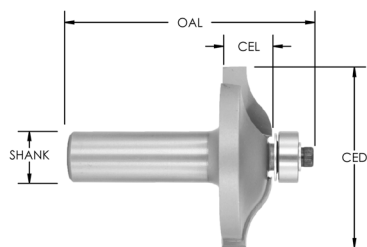


PART #	CED	CEL	SHANK	OAL	ANGLE 1	ANGLE 2
SE3318	2-3/8"	1-3/8"	1/2"	3-3/8"	38°	52°

Use SBE124 Bearing

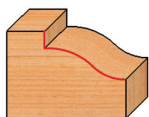


ELLIPSE OGEE

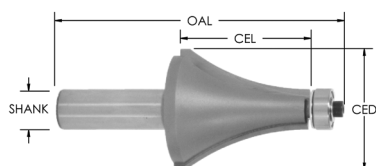


PART #	CED	CEL	SHANK	OAL
SE3265	1-3/4"	1/2"	1/4"	2-1/8"
SE3266	1-3/4"	1/2"	1/2"	2-1/8"

Use SBE115 Bearing

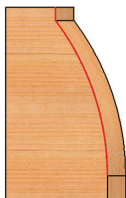


FURNITURE/BOX MAKER

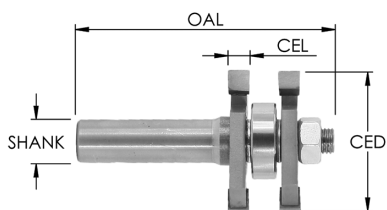


PART #	CED	CEL	SHANK	OAL
SE3525	1-1/2"	1-5/8"	1/2"	3-15/16"

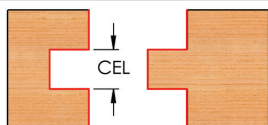
Use SBE115 Bearing



TONGUE AND GROOVE ASSEMBLY

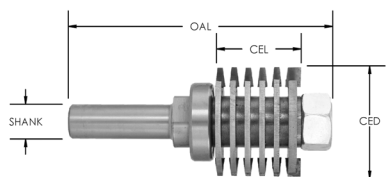


PART #	CED	CEL	SHANK	MATERIAL THICKNESS	BEARING
SE3375	1-5/8"	9/32"	1/2"	1/2" to 13/16"	SBE125

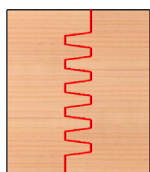


PART #	CED	Description
SE3375G	1-1/8"	Slotting Cutter
SAR500-1716		Arbor
SBE125		Bearing
SESK-012		Shim Kit

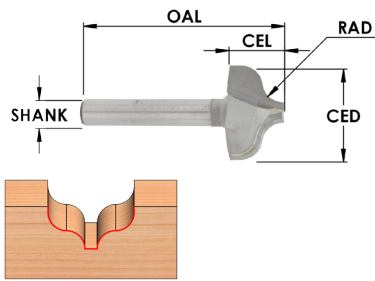
FINGER JOINT ASSEMBLY



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

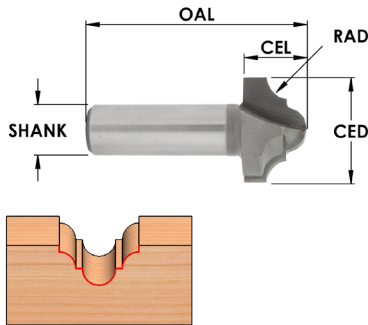


PLUNGE OGEE



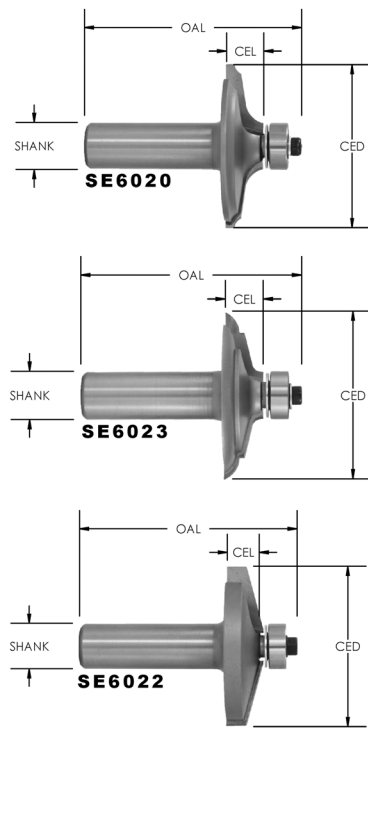
PART #	CED	CEL	SHANK	RAD
SE3601	3/8"	3/8"	1/4"	1/16"
SE3602	1/2"	3/8"	1/4"	3/32"
SE3603	3/4"	7/16"	1/4"	1/8"
SE3604	7/8"	1/2"	1/4"	3/16"
SE3605	3/8"	3/8"	1/2"	1/16"
SE3605A	1/2"	3/8"	1/2"	3/32"
SE3605B	3/4"	7/16"	1/2"	1/8"
SE3606	7/8"	5/8"	1/2"	3/16"
SE3608	1-1/4"	11/16"	1/2"	3/16"

CLASSICAL ROUND BOTTOM



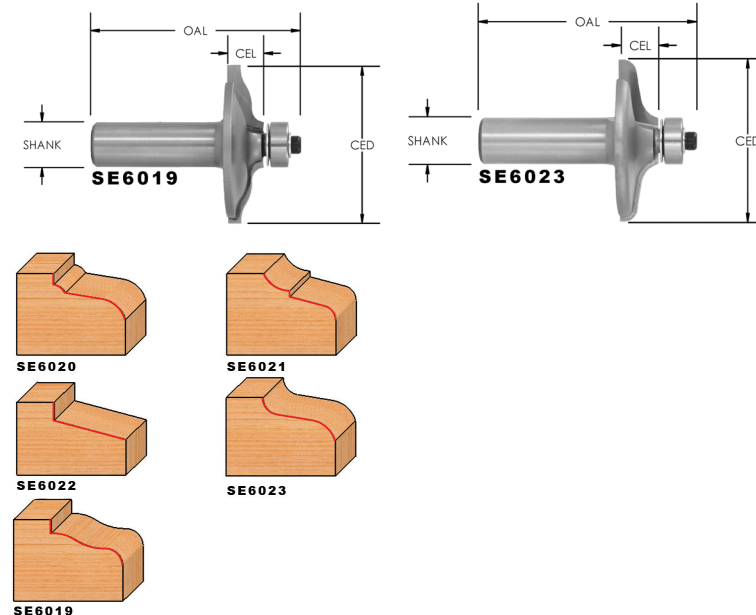
PART #	CED	CEL	SHANK	RAD
SE3719	1/2"	3/8"	1/4"	3/32"
SE3728	3/4"	1/2"	1/4"	5/32"
SE3733	3/4"	1/2"	1/2"	5/32"
SE3738	1"	5/8"	1/2"	7/32"
SE3752	1-1/2"	3/4"	1/2"	3/8"

DOOR EDGE PROFILE

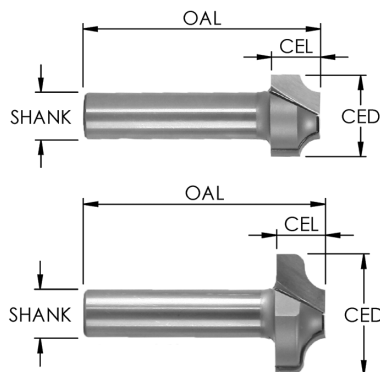


PART #	CED	CEL	SHANK	OAL
SE6019	1-3/4"	7/16"	1/2"	2-5/16"
SE6020	1-3/4"	7/16"	1/2"	2-5/16"
SE6021	1-3/4"	7/16"	1/2"	2-5/16"
SE6022	1-3/4"	7/16"	1/2"	2-5/16"
SE6023	1-3/4"	7/16"	1/2"	2-5/16"

Use SBE115 Bearing

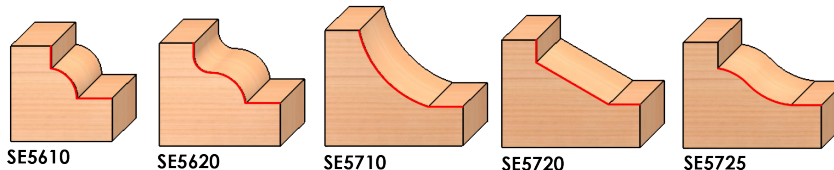


MDF DOOR BITS

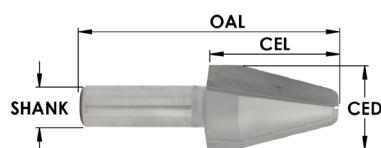


PART #	CED	CEL	SHANK	OAL	STYLE	DESCRIPTION
SE5610	7/8"		1/2"	2-1/2"	Bead	Stile Profile
SE5620	1-1/4"		1/2"	2-1/2"	Traditional	
SE5710	1-1/2"		1/2"	2-1/2"	Cove	Panel Profile
SE5720	1-1/2"		1/2"	2-1/2"	Straight	
SE5725	1-1/2"		1/2"	2-1/2"	Ogee	

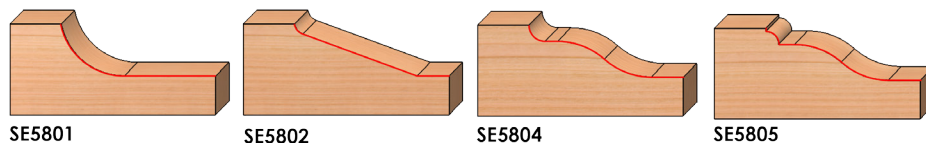
Tools can be made in Insert and PCD Diamond Tipped - Call for Pricing



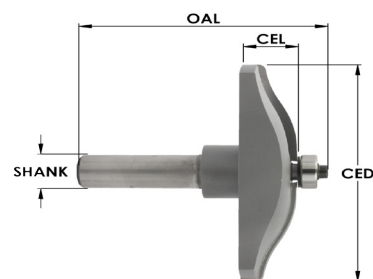
VERTICAL PANEL



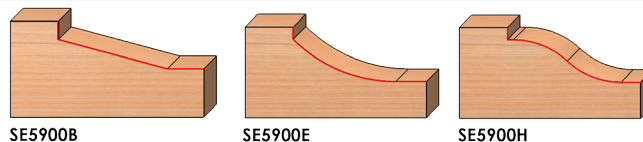
PART #	CED	CEL	SHANK	STYLE
SE5801	1"	1-1/2"	1/2"	Cove
SE5802	1"	1-1/2"	1/2"	Straight
SE5804	1"	1-1/2"	1/2"	Ogee
SE5805	1"	1-1/2"	1/2"	Ogee Bead



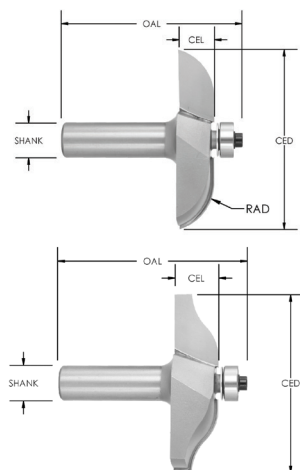
RAISED PANEL BITS



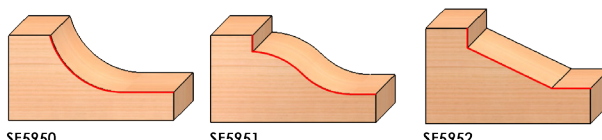
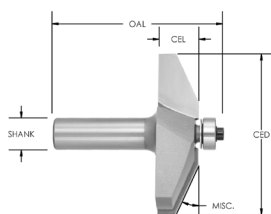
PART #	CED	SHANK	OAL	BEARING	STYLE
SE5900B	3-1/4"	1/2"	1-3/8"	SBE115	Straight 15°
SE5900E	3-1/4"	1/2"	1-3/8"	SBE115	Cove
SE5900H	3-1/4"	1/2"	1-3/8"	SBE115	Ogee



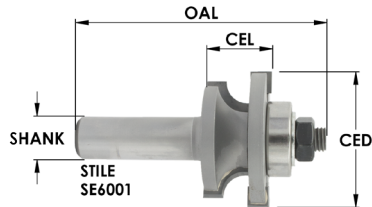
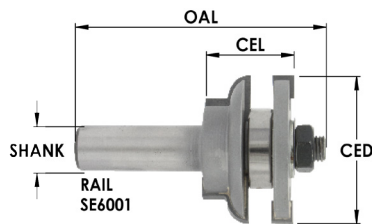
MEDIUM RAISED PANEL



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°

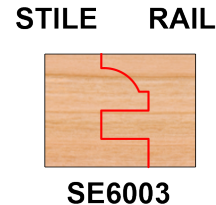
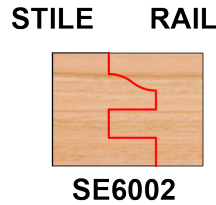
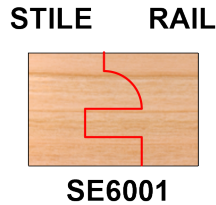


STILE AND RAIL

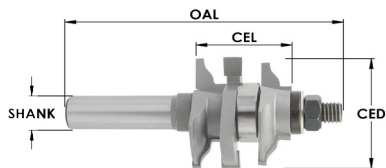


PART #	CED	CEL	SHANK	DEPTH	PATTERN
SE6001	1-5/8"	1"	1/2"	3/8"	Round
SE6002	1-5/8"	1"	1/2"	3/8"	Ogee
SE6003	1-5/8"	1"	1/2"	3/8"	Bead

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



DOUBLE STILE AND RAIL

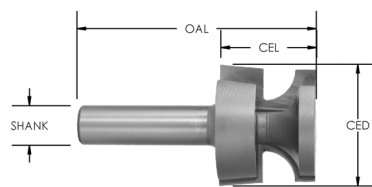


PART #	CED	SHANK	DEPTH	PATTERN
SE6007	1-5/8"	1/2"	3/8"	Ogee

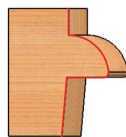
Bearing SBE125
Shim Kit SESK-012



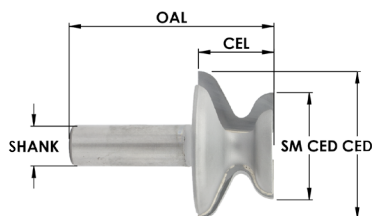
RECESSED DOOR EDGE



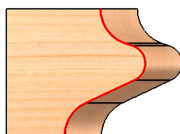
PART #	CED	CEL	SHANK
SE6010	1-1/2"	1-3/16"	1/2"



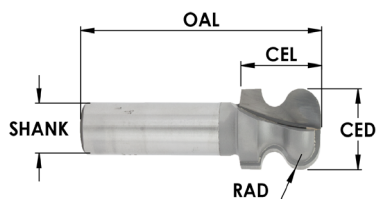
EUROPEAN DOOR EDGE



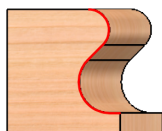
PART #	CED	CEL	SHANK	OAL	SM DIA
SE6016	1-3/4"	7/8"	1/2"	2-3/8"	5/8"



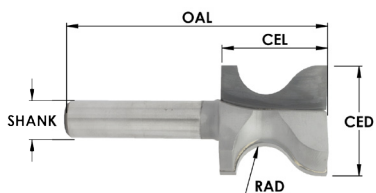
DRAWER PULL



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

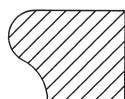


WINDOW SILL EDGE

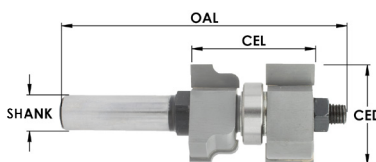


PART #	CED	CEL	SHANK	RAD
SE6045	1-1/4"	13/16"	1/2"	7/32"
SE6046	1-7/16"	1-1/8"	1/2"	3/8"

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"



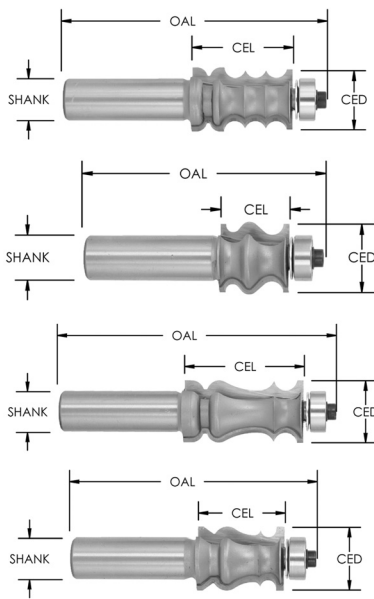
STILE CUT



RAIL CUT

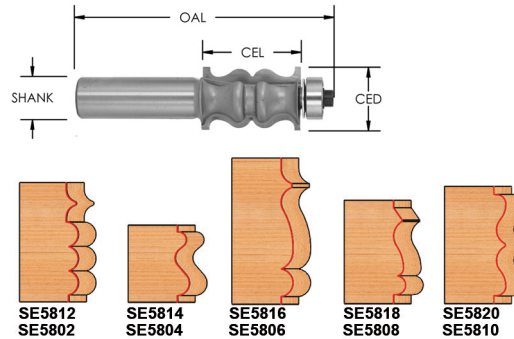
PART #	CED	Description
SE6050P	1-3/8"	Profile Cutter
SAR500WS		Arbor
SBE125		Bearing
SESK-012		Shim Kit
SE6050SP		Spacer
SE6050C	1-3/8"	Straight Cutter

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



PASO ROBLES THROW AWAY



SETA-228



SETA-NUT

PART #	DESCRIPTION	CEL
SETA-150	Straight Flush Trim Assembly 1/4" Shank	Sold Each
SETA-151	100 Bevel Trim Assembly 1/4" Shank	Sold Each
SETA-152	Straight Cutter Assembly 1/4" Shank	Sold Each
SETA-156	Straight Slip on Cutters Only	Sold Pkg of 3
SETA-157	100 Bevel Cutters Only	Sold Pkg of 3
SETA-160	Arbors for SETA-150, 151 1/4" Shank	Sold Each
SETA-161	Arbor for SETA-152 1/4" Shank	Sold Each
SETA-162	Arbor for SETA-170 1/4" Shank	Sold Each
SETA-170	Template Bit Assembly 1/4" Shank	Sold Each
SETA-176	Straight Threaded Cutters Only	Sold Pkg of 3
SETA-228	Rabbet Bit Cutter Only	Sold Each
SETA-228K	Rabbet Bit Assembly 1/4" Shank	Sold Each
SETA-Nut	5/16 OD nuts for SETA-150, 151, 152, 228K	Sold Each



SETA-170



SETA-150



SETA-151



SETA-152



SETA-162



SETA-157



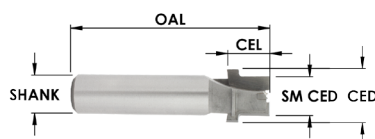
SETA-176

POCKET HOLE BITS FOR CASTLE™ MACHINE



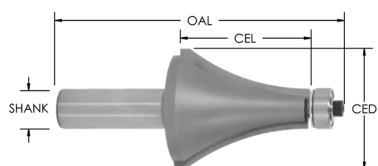
PART #	CED	CEL	SHANK	OAL	DESCRIPTION
SE29102-CAST	9/64"	1"	1/4"	2-1/2"	Drill - Package of 5
SECTDS38	3/8"	9/16"	3/8"	2-1/2"	Carbide Tipped
SRU320RUF	3/8"	7/8"	3/8"	2-1/2"	Solid Carbide
SE29102-CAST-VPT	9/64"	1"	1/4"	2-1/2"	V-Point- Package of 5

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"

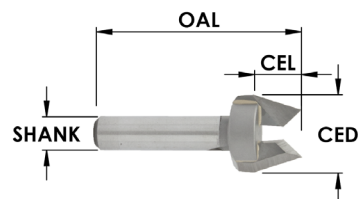
QUEEN ANNE MOLDING



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

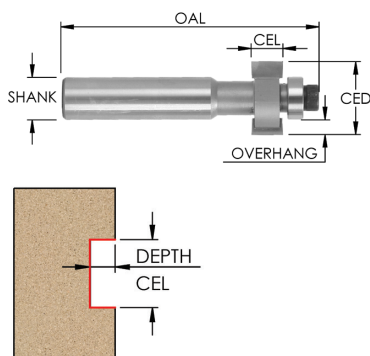


PART #	CED	CEL	SHANK
PCO-14	5/16" - 9/16"	5/16"	1/4"

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

SOLID SURFACE BITS

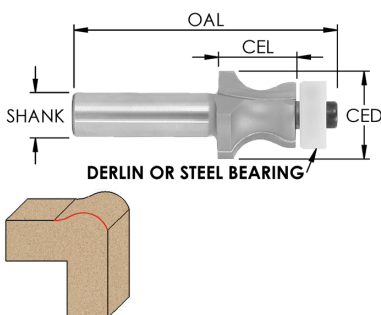
FACE INLAY BITS



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

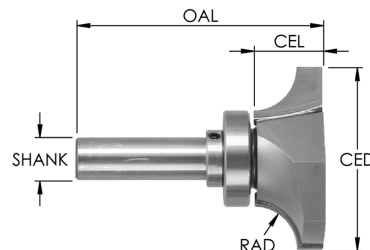
SBE124 Bearing can be used for flush cutting if needed

NO DRIP COUNTER TOP

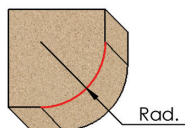


PART #	CED	SHANK	OAL	MATERIAL	BEARING
SE2926	1"	1/2"	3-1/8"	3/4"	SBE121

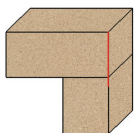
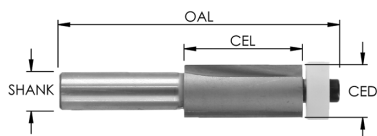
UNDER ROUNDROVER



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

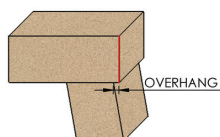
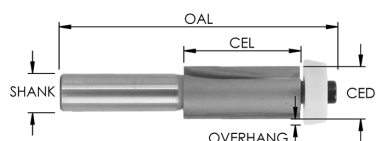


FLUSH TRIM BITS



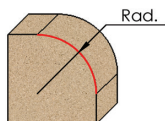
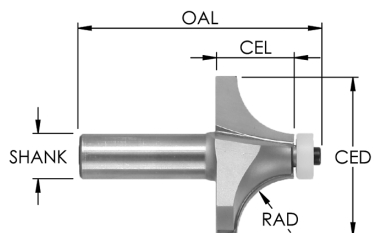
PART #	CED	CEL	SHANK	BEARING
SE2410DS	3/4"	1"	1/2"	SBE121

OVERHANG BOWL TRIM



PART #	CED	CEL	SHANK	OAL	BEARING	MATERIAL
SE2945	3/4"	1"	1/2"	3-3/8"	SBESS-New	1/2"-3/4"
<i>Uses Screw SE1032-38SP</i>						

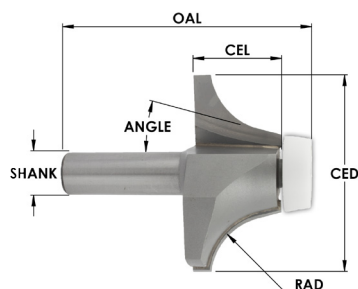
ROUNDROVER BITS WITH DELRIN BEARING



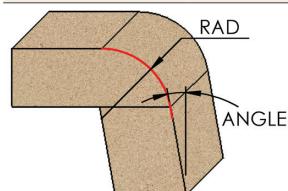
PART #	CED	CEL	SHANK	RAD	BEARING
SE2005ADS	3/4"	1/2"	1/2"	1/8"	SBE117
SE2006DS	1"	1/2"	1/2"	1/4"	SBE117
SE2007DS	1-1/8"	1/2"	1/2"	5/16"	SBE117
SE2008DS	1-1/4"	5/8"	1/2"	3/8"	SBE117
SE2009DS	1-1/2"	3/4"	1/2"	1/2"	SBE117
SE2009ADS	1-3/4"	1"	1/2"	5/8"	SBE117
SE2010DS	2"	1"	1/2"	3/4"	SBE117
SE2011DS	2-1/4"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

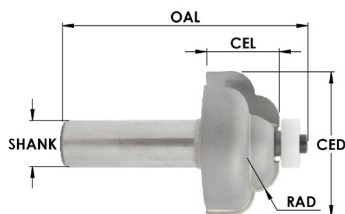
ROUNDROVER UNDERMOUNT



PART #	CED	CEL	SHANK	OAL	RAD	ANGLE	BEARING
SE2930	2-1/4"	1"	1/2"	3-1/4"	3/4"	15°	SBESS-New
SE2931	2-1/8"	1"	1/2"	3"	1/2"	18°	SBESS-New
SE2932	2-1/4"	1-1/4"	1/2"	3-1/4"	9/16"	18°	SBESS-New
SE2933	2"	11/16"	1/2"	2-1/2"	3/8"	17°	SBESS-New
SE2934	2-1/4"	11/16"	1/2"	2-1/2"	1/2"	14°	SBESS-New
SE2935	2-1/8"	1"	1/2"	2-7/8"	1/2"	17°	SBESS-New

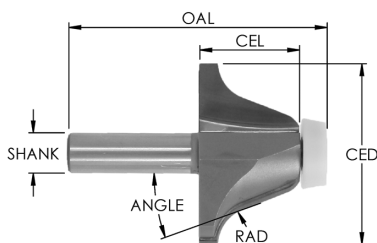


DOUBLE COVE BIT



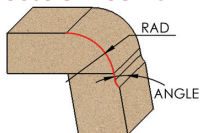
PART #	CED	CEL	SHANK	OAL	RAD
SE2968	1-1/2"	3/4"	1/2"	2-1/2"	1/4"

ROMAN OGEE UNDERMOUNT

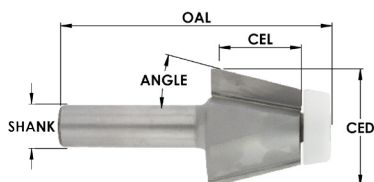


PART #	CED	CEL	SHANK	OAL	RAD	ANGLE	MATERIAL
SE2927	2-1/8"	1"	1/2"	2-7/8"	1/2"	15 DEG	1/2"
SE2928	2-3/8"	1-1/4"	1/2"	3-1/8"	9/16"	15 DEG	3/4"

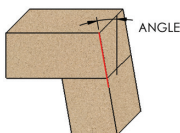
Uses SBESS-New Bearing



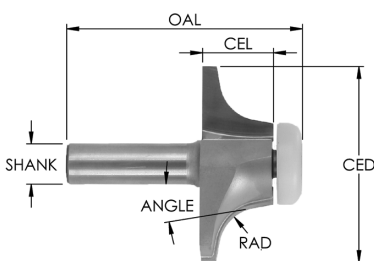
BEVEL UNDERMOUNT



PART #	CED	CEL	SHANK	OAL	ANGLE	THICK	BEARING
SE2940	1-1/4"	1"	1/2"	3-1/8"	10°	1/2"-3/4"	SBESS-New
SE2942	1-1/4"	1"	1/2"	3-1/8"	12°	1/2"-3/4"	SBESS-New
SE2944	1-7/16"	1"	1/2"	3-1/8"	15°	1/2"-3/4"	SBESS-New

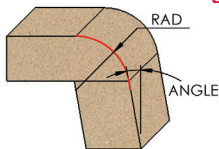


WILSONART® BOWL

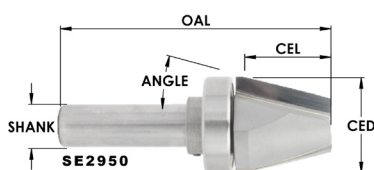


PART #	CED	CEL	SHANK	R1	R2	THICK	DEGREE	DESC
SE2970	1 1/2"	1-1/4"	1/2"	—	—	1/2"-1-1/4"	12°	Bevel
SE2972	2 3/8"	7/8"	1/2"	9/16"	—	1/2"-3/4"	12°	Roundover
SE2974	2 1/4"	15/16"	1/2"	5/32"	13/64"	1/2"-3/4"	13°	Ogee

Uses SBE149 Bearing AND SIWB-Screw

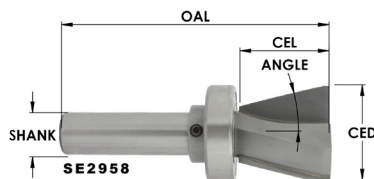


SOLID SURFACE REPAIR BITS

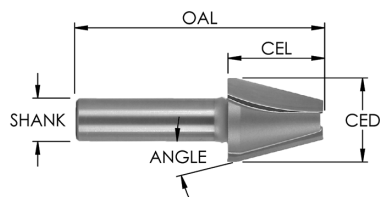


PART #	CED	CEL	SHANK	OAL	ANGLE	BEARING
SE2950	1-1/8"	1"	1/2"	3-5/16"	14 DEG	SBE150
SE2958	1-1/8"	1"	1/2"	3-5/16"	14 DEG	SBE150

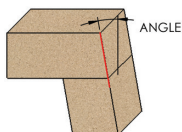
Uses collar SELC-12



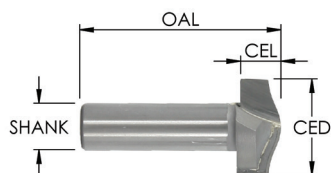
BEVEL BIT



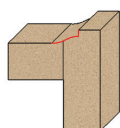
PART #	CED	CEL	SHANK	OAL	ANGLE
SE2956	1"	1-1/8"	1/2"	2-3/4"	15 DEG



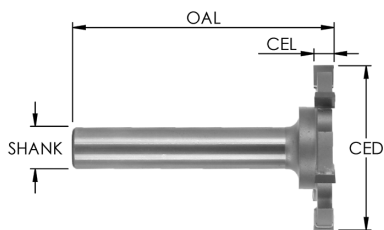
VERTICAL NO DRIP



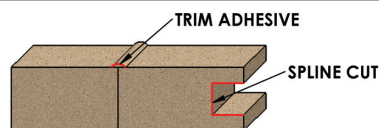
PART #	CED	CEL	SHANK	OAL
SE2952	3/4"	3/8"	1/4"	1-5/8"
SE2954	1"	3/8"	1/2"	2-1/8"



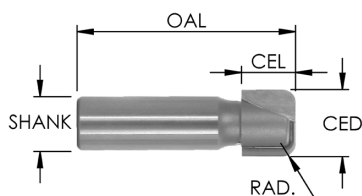
COUNTERTOP SURFACE PLANER



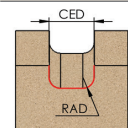
PART #	CED	CEL	SHANK	FLUTES
SE2986	2-1/16"	1/8"	1/2"	6
SE2988	2-1/16"	1/4"	1/2"	6
SE2990	2"	3/8"	1/2"	6



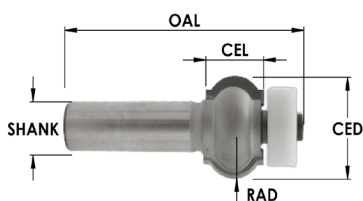
DRAINBOARD BITS



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"

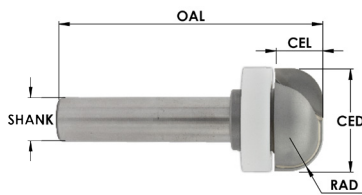


FACE COVE BITS



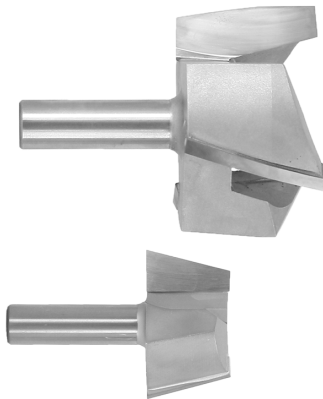
PART #	CED	CEL	SHANK	OAL	RAD
SE2960	1"	5/8"	1/2"	2-3/4"	5/16"

BACKSPLASH COVE



PART #	CED	CEL	SHANK	OAL	RAD
SE2964	1-1/8"	1/2"	1/2"	2-7/8"	3/8"

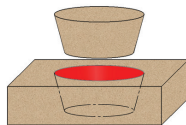
SOLID SURFACE REPAIR BITS



PART #	DESCRIPTION
SE2991	2 PIECE SET
SE2992	3 FLUTE PLUG CUTTER
SE2994	2 FLUTE BEVEL CUTTER

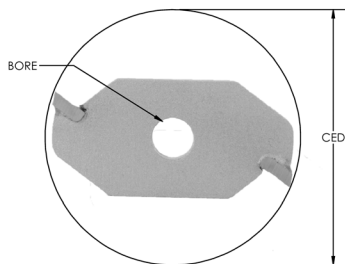
If you have ever cut a hole in a piece of solid surface in the wrong place, then you need this set. The bevel bit cuts a taper in the hole that was cut wrong and needs to be repaired. The 3 flute plug cutter cuts a taper that will match the taper from the bevel cutter. Once you have finished you will have a virtually undetectable repair of the solid surface. Effective for repairs up to 1-3/4" in diameter.

Note: Hot glue fill piece down to avoid movement.



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.

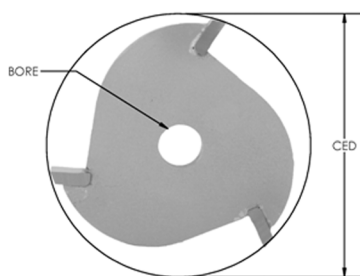
2 WING SLOT CUTTER - ASSEMBLY



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.

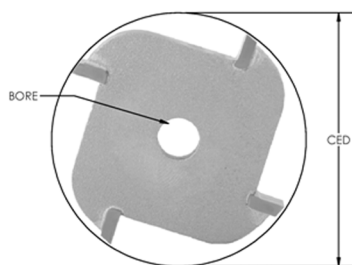
3 WING SLOT CUTTER - ASSEMBLY



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	KERF	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.

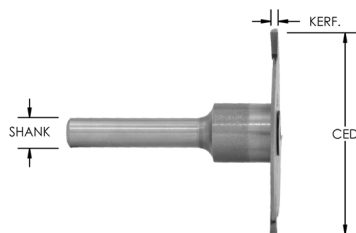
3 WING COUNTERSINK SLOT CUTTER*



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*

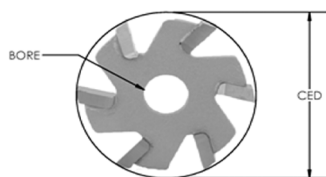
3 WING COUNTERSINK SLOT CUTTER - ASSEMBLY*



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"

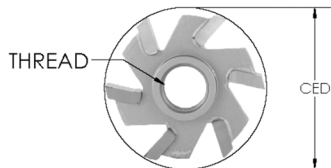
**Flush Bottom Assembly
18,000 MAX RPM*

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

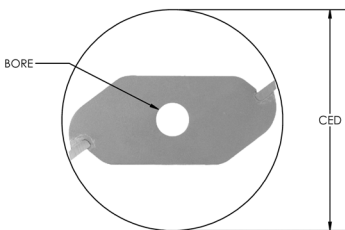
JEMCO SLOT CUTTERS



PART #	CED	KERF (Decimal)	KERF (Fraction)	BORE	WINGS	THREAD
SJM187-4	1-1/4"	.187"	3/16"	5/16"	4	3/8"-24
SJM250-4	1-1/4"	.250"	1/4"	5/16"	4	3/8"-24
SJM187-6	1-1/4"	.187"	3/16"	5/16"	6	3/8"-24
SJM250-6	1-1/4"	.250"	1/4"	5/16"	6	3/8"-24
SJM281-6	1-1/4"	.281"	9/32"	5/16"	6	3/8"-24

Special sizes available, call for a quote.

TOPMASTER SLOT CUTTER - 2 WING

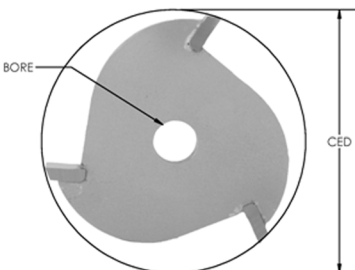


Part#	CED	KERF (Decimal)	KERF (Fraction)	BORE
STOP060	2-1/2"	.060"	n/a	3/8"
STOP062	2-1/2"	.062"	1/16"	3/8"
STOP070	2-1/2"	.070"	n/a	3/8"
STOP080	2-1/2"	.080"	n/a	3/8"
STOP085	2-1/2"	.085"	n/a	3/8"
STOP090	2-1/2"	.090"	n/a	3/8"
STOP093	2-1/2"	.093"	3/32"	3/8"
STOP095	2-1/2"	.095"	n/a	3/8"
STOP100	2-1/2"	.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

Arbor for Topmaster Cutters

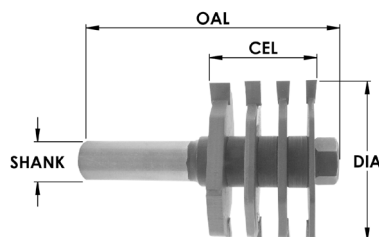
TOPMASTER SLOT CUTTER - 3 WING



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.

ADJUSTABLE SLOTTING CUTTER ASSEMBLY



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

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

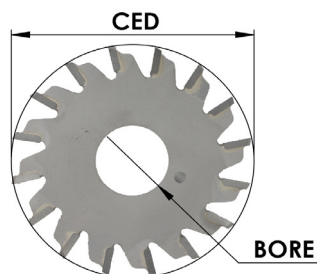
CARBIDE-TIPPED SAW BLADES



PART #	CED	TEETH	KERF (Fraction)	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

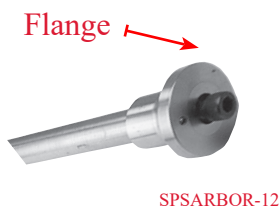
**Negative Hook*

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

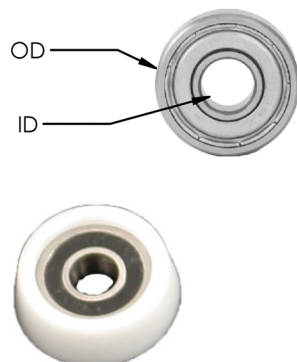
ARBORS FOR PLASTIC SAWS



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

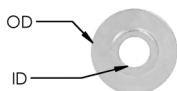
BEARINGS



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"	
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"	
SBE188	.365"	1/8"	(For sharpened tools)
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)
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"	
SBE152	1 1/4"	1/2"	
SBE153	1 3/8"	1/2"	
SBE154	1-1/2"	1/2"	
SBESS	3/4"	1/4"	
SBESS-New*	7/8"	1/4"	10 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

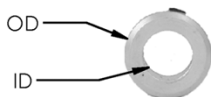
To reduce the effect of dust and glues on bearings.

RETAINING RINGS



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

BEARING LOCKING COLLARS



PART #	O.D.	I.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

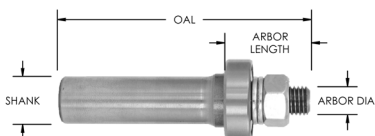
1 pc SBE110
1 pc SBE115
1 pc SBE135
1 pc SBE140
Hex Key Wrench



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

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

ARBORS FOR SLOT CUTTERS



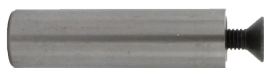
THE ABOVE PICTURE IS WITH THE
ADDED BEARING. (SAR500A)



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"
SAR500-1716	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).

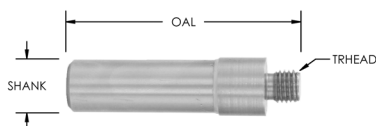
ARBORS FOR COUNTERSINK SLOT CUTTERS (FLUSH BOTTOM)



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"	2"	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)



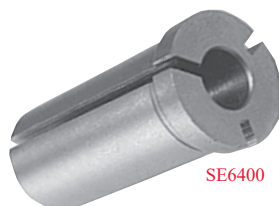
PART #	DESCRIPTION
SESK-012	For any assembly using 5/16" arbor that may need adjustment. (All spacers are 5/16" ID x 5/8" O.D. Kit includes 3 each of the following thicknesses: 6mm, 1mm, .5mm, and .1mm.)

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

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"	1-1/8"	6"

Each Chisel 1/4" thru 5/8" comes with the center drill

**Drill sold separately*

HOLLOW MORTISING CHISELS - CENTER DRILL ONLY



PART #	CED	OAL
SEHMC250-DRILL	1/4"	8-1/4"
SEHMC375-DRILL	3/8"	8-1/4"
SEHMC500-DRILL	1/2"	8-1/4"
SEHMC625-DRILL	5/8"	9"
SEHMC750-DRILL	3/4"	9"

High-Speed Steel

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

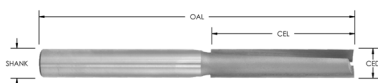


M2 Steel

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

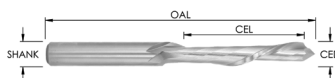
CARBIDE-TIPPED STRAIGHT DOOR LITE BITS



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"

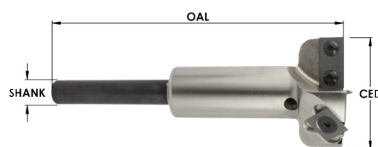
*with (1) flat on shank

HIGH-SPEED STEEL SPIRAL DOOR BITS



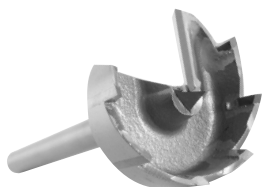
PART #	CED	CEL	SHANK	OAL	DESCRIPTION
SEDOOR-53	1/2"	2-1/2"	1/2"	5-1/2"	Uncoated
SEDOOR-53M	1/2"	2-1/2"	1/2"	5-1/2"	Ceramic Based Coating
SEDOOR-53T	1/2"	2-1/2"	1/2"	5-1/2"	Tin Coated
SEDOOR-57F	1/2"	2-1/2"	1/2"	5-1/2"	With Flat
SEDOOR-57FT	1/2"	2-1/2"	1/2"	5-1/2"	Tin Coated w/ Flat
SEDOOR-60	1/2"	2-1/2"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

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

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**

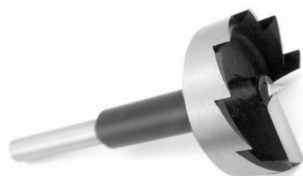
Import

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"

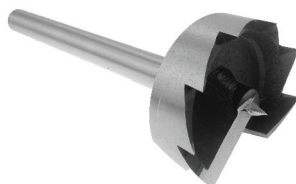
* 3/4 shank

HIGH SPEED STEEL MULTI-SPUR BITS



SSMHS435

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

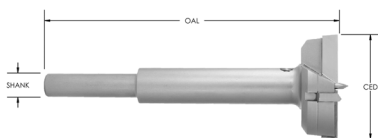


Made in Austria

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"	6"
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"	1/2"	6"
SMSHS460-34*	4"	3/4"	6"
SMSHS460	4"	1/2"	6"

*3/4 shank

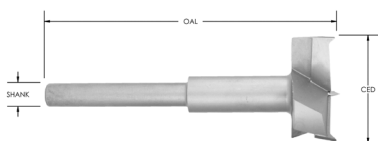
2 WING DOOR DRILLS - ECONOMY



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

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

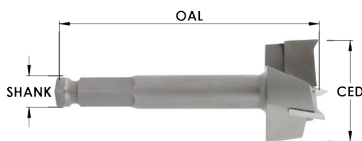
Special sizes available, call for a quote.

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.

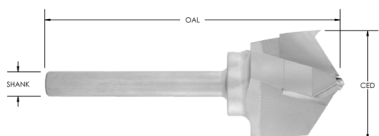
3 WING QUICK CHANGE DOOR DRILLS



PART #	CED	SHANK	OAL
SDR300-QCF	3/4"	1/2"	3-3/4"
SDR310-QCF	7/8"	1/2"	3-3/4"
SDR320-QCF	1"	1/2"	3-7/8"
SDR325-QCF	1-1/16"	1/2"	3-7/8"
SDR330-QCF	1-1/8"	1/2"	3-7/8"
SDR340-QCF	1-1/4"	1/2"	3-7/8"
SDR345-QCF	1-5/16"	1/2"	3-7/8"
SDR350-QCF	1-3/8"	1/2"	3-7/8"
SDR360-QCF	1-1/2"	1/2"	3-7/8"
SDR390-QCF	1-7/8"	1/2"	3-7/8"

Used for fiberglass cutting in the boat or RV industries

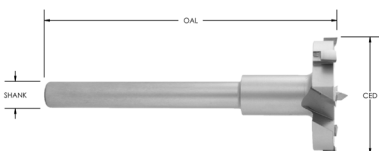
3 WING DOOR KNOB DRILLS



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

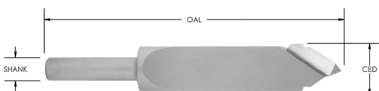


PART #	CED	SHANK	OAL	DESCRIPTION
SLOC600	2-1/8"	1/2"	5-3/4"	With Flat
SLOC605	2-1/8"	1/2"	5-3/4"	With 3 Flats
SLOC610	2-1/8"	1/2"	5-3/4"	Without Flat
SDR-DRILL	Replacement Center Drill			
SDR-SCREW	Replacement Screw			

FOR AUTOMATED PRE-HUNG DOOR EQUIPMENT

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

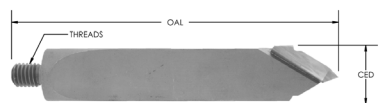
LATCH BORE BIT



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

FACE FRAME BITS



SFFB700

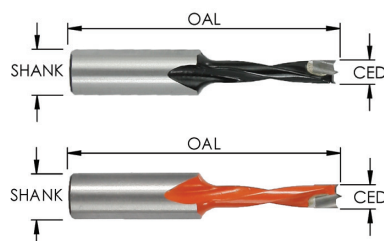


SFFB800

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	

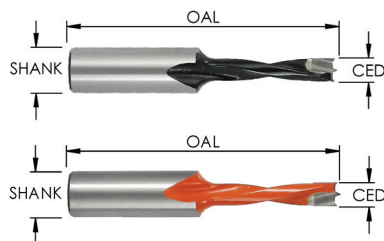
BRAD POINT AND THROUGH HOLE BITS

BRAD POINT - 57MM OAL



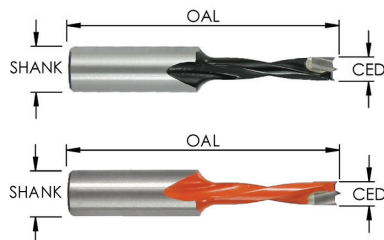
PART # Right-Hand	PART # Left-Hand	Brad Point CED	Shank	OAL
SE5703RH	SE5703LH	3mm	10mm	57mm
SE5704RH	SE5704LH	4mm	10mm	57mm
SE57045RH	SE57045LH	4.5mm	10mm	57mm
SE57187RH	SE57187LH	4.76mm (3/16")	10mm	57mm
SE5705RH	SE5705LH	5mm	10mm	57mm
SE57051RH	SE57051LH	5.1mm	10mm	57mm
SE57055RH	SE57055LH	5.5mm (7/32")	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



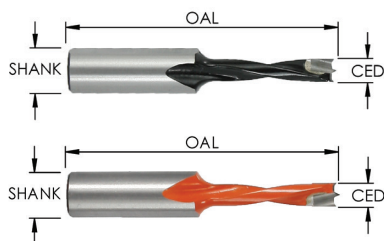
PART # Right-Hand	PART # Left-Hand	Brad Point CED	Shank	OAL
SE7003RH	SE7003LH	3mm	10mm	70mm
SE7004RH	SE7004LH	4mm	10mm	70mm
SE70045RH	SE70045LH	4.5mm	10mm	70mm
SE70187RH	SE70187LH	4.76mm (3/16")	10mm	70mm
SE7005RH	SE7005LH	5mm	10mm	70mm
SE70051RH	SE70051LH	5.1mm	10mm	70mm
SE70055RH	SE70055LH	5.5mm (7/32")	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



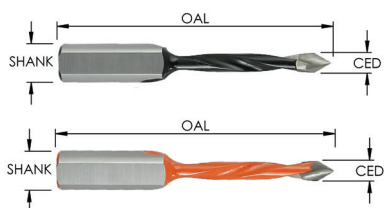
PART # Right-Hand	PART # Left-Hand	Brad Point CED	Shank	OAL
SE7704RH	SE7704LH	4mm	10mm	77mm
SE7705RH	SE7705LH	5mm	10mm	77mm
SE7706RH	SE7706LH	6mm	10mm	77mm
SE77250RH	SE77250LH	6.35mm (1/4")	10mm	77mm
SE7707RH	SE7707LH	7mm	10mm	77mm
SE7708RH	SE7708LH	8mm	10mm	77mm
SE77375RH	SE77375LH	9.52mm (3/8")	10mm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

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



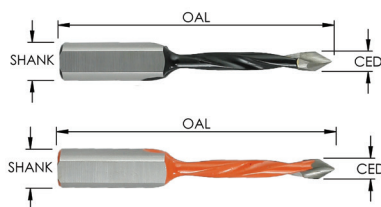
PART # Right-Hand	PART # Left-Hand	Brad Point CED	Shank	OAL
SE63505RH	SE63505LH	5mm	1/4"	63.5mm (2-1/2")
SE635250RH	SE635250LH	6.35mm (1/4")	1/4"	63.5mm (2-1/2")
SE63505RH-F	SE63505LH-F	5mm	1/4"	63.5mm (2-1/2")
SE635250RH-F	SE635250LH-F	6.35mm (1/4")	1/4"	63.5mm (2-1/2")

V-POINT - 58MM OAL



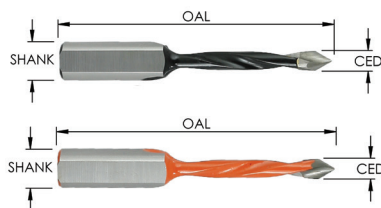
PART # Right-Hand	PART # Left-Hand	V-Point CED	Shank	OAL
SEV5803RH	SEV5803LH	3mm	10mm	58mm
SEV5804RH	SEV5804LH	4mm	10mm	58mm
SEV58187RH	SEV58187LH	4.76mm (3/16")	10mm	58mm
SEV5805RH	SEV5805LH	5mm	10mm	58mm
SEV58055RH	SEV58055LH	5.5mm (7/32")	10mm	58mm
SEV5806RH	SEV5806LH	6mm	10mm	58mm
SEV58250RH	SEV58250LH	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



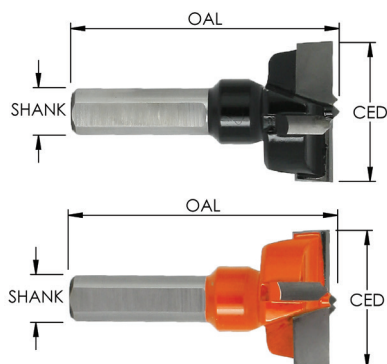
PART # Right-Hand	PART # Left-Hand	V-Point CED	Shank	OAL
SEV7003RH	SEV7003LH	3mm	10mm	70mm
SEV7004RH	SEV7004LH	4mm	10mm	70mm
SEV70187RH	SEV70187LH	4.76mm (3/16")	10mm	70mm
SEV7005RH	SEV7005LH	5mm	10mm	70mm
SEV70055RH	SEV70055LH	5.5mm (7/32")	10mm	70mm
SEV7006RH	SEV7006LH	6mm	10mm	70mm
SEV70250RH	SEV70250LH	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



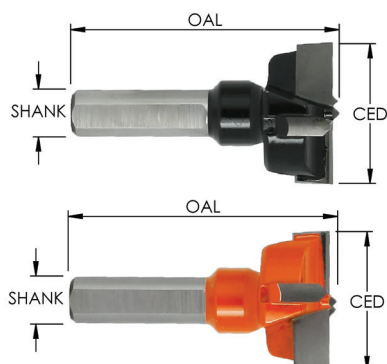
PART # Right-Hand	PART # Left-Hand	V-Point Diameter	Shank	OAL
SEV7704RH	SEV7704LH	4mm	10mm	77mm
SEV7705RH	SEV7705LH	5mm	10mm	77mm
SEV7706RH	SEV7706LH	6mm	10mm	77mm
SEV7707RH	SEV7707LH	7mm	10mm	77mm
SEV7708RH	SEV7708LH	8mm	10mm	77mm
SEV7710RH	SEV7710LH	10mm	10mm	77mm
SEV77438RH	SEV77438LH	11.1mm (7/16")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



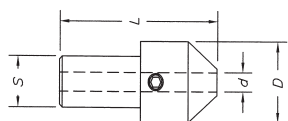
PART # Right-Hand	PART # Left-Hand	CED	SHANK	OAL
Center Drills * Drill Point				
CD4502RH	CD4502LH	2mm	2mm	45mm
CD53025RH	CD53025LH	2.5mm	2.5mm	53mm
CD53028RH	CD53028LH	2.8mm	2.8mm	53mm

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



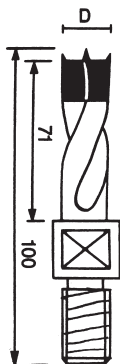
PART # Right-Hand	PART # Left-Hand	Brad Point CED	Twist Length	Shank	OAL
SCBP5703RH	SCBP5703LH	3mm	18mm	10mm	57mm
SCBP5704RH	SCBP5704LH	4mm	20mm	10mm	57mm
SCBP5705RH	SCBP5705LH	5mm	20mm	10mm	57mm
SCBP5706RH	SCBP5706LH	6mm	20mm	10mm	57mm
SCBP5708RH	SCBP5708LH	8mm	20mm	10mm	57mm
SCBP7003RH	SCBP7003LH	3mm	28mm	10mm	70mm
SCBP7004RH	SCBP7004LH	4mm	30mm	10mm	70mm
SCBP7005RH	SCBP7005LH	5mm	30mm	10mm	70mm
SCBP7006RH	SCBP7006LH	6mm	30mm	10mm	70mm
SCBP7008RH	SCBP7008LH	8mm	30mm	10mm	70mm
SCBP7010RH	SCBP7010LH	10mm	30mm	10mm	70mm

SOLID CARBIDE BORING BITS WITH STEEL SHANK - V-POINT



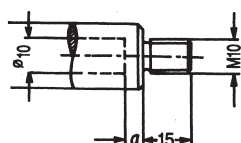
PART # Right-Hand	PART # Left-Hand	Brad Point CED	Twist Length	Shank	OAL
SCVP5805RH	SCVP5805LH	5mm	20mm	10mm	58mm
SCVP5808RH	SCVP5808LH	8mm	20mm	10mm	58mm
SCVP7005RH	SCVP7005LH	5mm	20mm	10mm	70mm
SCVP7008RH	SCVP7008LH	8mm	20mm	10mm	70mm

CARBIDE-TIPPED THREADED SHANK DOWEL DRILLS

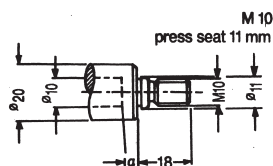


PART # Right-Hand	PART # Left-Hand	Diameter	Shank Thread	OAL
SETSM8005RH	SETSM8005LH	5mm	M8 x 1.25	100mm
SETSM8006RH	SETSM8006LH	6mm	M8 x 1.25	100mm
SETSM8008RH	SETSM8008LH	8mm	M8 x 1.25	100mm
SETSM8010RH	SETSM8010LH	10mm	M8 x 1.25	100mm
SETSM8012RH	SETSM8012LH	12mm	M8 x 1.25	100mm
SETSM8015RH	SETSM8015LH	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

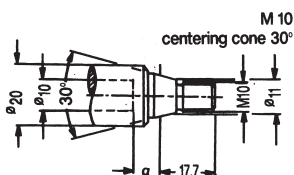
CHUCK ADAPTERS WITH THREADED SHANK



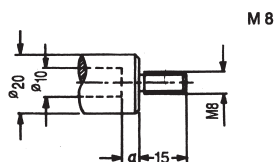
PART # RIGHT-HAND	PART # LEFT-HAND	SHANK THREADS	MACHINE(S)
QCDA1001RH	QCDA1002LH	M10	Ayen®, Mayer®, Torwegge®



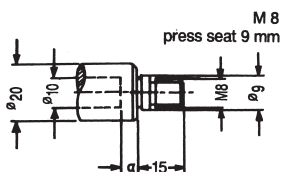
PART # RIGHT-HAND	PART # LEFT-HAND	SHANK THREADS	MACHINE(S)
QCDA1003RH	QCDA1004LH	M10	Morbidelli®, Weeke®, Holtzer®, SCMI®, Reimall®, Vitap®



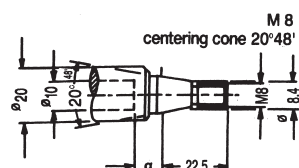
PART # RIGHT-HAND	PART # LEFT-HAND	SHANK THREADS	MACHINE(S)
QCDA1005RH	QCDA1006LH	M10	Busselatto®, Ompec®, Bilek®, Weeke®



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®



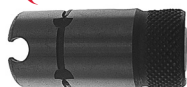
PART # RIGHT-HAND	PART # LEFT-HAND	SHANK THREADS	MACHINE(S)
QCDA8005RH	QCDA8006LH	M8	Bilek®

QUICK CHANGE ADAPTER - BIESSE®

QCDA-Biesse®

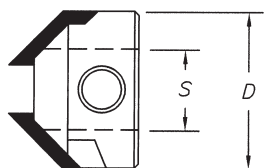


QCDA-Morbideli®



PART #	DESCRIPTION
RIGHT-HAND	
QCDA-Biesse®	10 x 20 x 3
QCDA-screw	screw for adapter
QCDA-Morbideli®	FM400

CARBIDE-TIPPED COUNTERSINKS



Replacement screw for the countersink above.
Part # DACSP screw

PART #	PART #	DIAMETER	Shank
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
SE918	3/8" x 1/8"	# 4
SE921	3/8" x 9/64"	# 6
SE924	3/8" x 5/32"	# 8
SE927	3/8" x 11/64"	# 8-9
SE930	3/8" x 3/16"	# 10

Uses SFFB-SCREW

CARBIDE-TIPPED COUNTERBORES



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

Counterbore and drill sold separately.

QUICK CHANGE ADAPTER FOR METRIC DRILLS

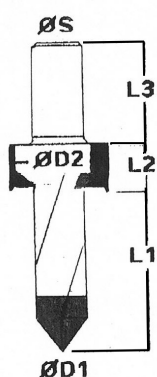


QCHDA250

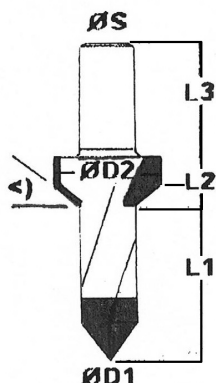
PART #	SHANK	OAL
QCHDA250	1/4" Hex	1-3/4"

COUNTERBORE & COUNTERSINK • ONE PIECE DESIGN

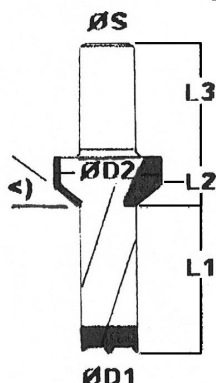
Southeast Tool can help with all of your specialty or custom tooling needs. Just determine your lengths, diameters and angles and we can provide the exact tool you need to do the job right!



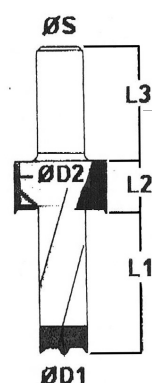
COUNTERBORE WITH
V-POINT



COUNTERSINK WITH
V-POINT



COUNTERSINK WITH
BRAD POINT



COUNTERBORE WITH
BRAD POINT

DRILLS

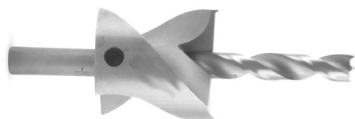
ADJUSTABLE COUNTERBORE, STYLE NO. 5



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".

SOLID COUNTERBORE, STYLE NO. 5DHS STEP DRILL • 1 PIECE



5DHS Solid Counterbore

Overall length is 5-1/2". Shank is 1/2" in diameter x 2" long.

SOLID COUNTERSINK, STYLE NO. 5EHS STEP DRILL • 1 PIECE



5EHS Solid Countersink

Overall length is 5-1/2". Shank is 1/2" in diameter x 2" long.

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

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

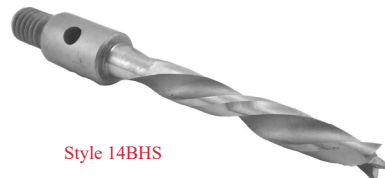


Style 14AHS

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.

Metric 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.

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



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



Style 14ESHS

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

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



14ESHS-L

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

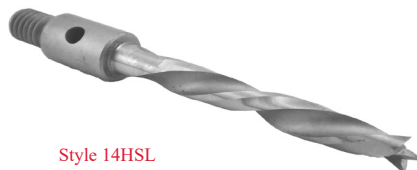
THREADED-SHANK BRAD-POINT DRILLS, STYLE NO. 14HS



Style 14HS

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

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



Style 14HSL

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

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



Style 14R

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

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.

COUNTERSINK DRILLS, STYLE 5B



Made from high-speed steel.

PART #	CED	CEL	SHANK	SHANK LENGTH	OAL
SE50300BP	3/16"	2-1/4"	1/8"	4"	6"
SE503001BP	7/32"	2-1/4"	3/16"	3-3/4"	6"
SE503010**	5/16"	1-1/2"	1/4"	4-1/2"	6"
SE50301BPHS	5/16"	1-1/2"	1/4"	4-1/2"	6"
SE50302BPHS	3/8"	1-1/2"	1/4"	4-1/2"	6"
SE503025**	3/8"	1-1/2"	1/4"	4-1/2"	6"
SE50303BPHS	7/16"	1-1/2"	1/4"	4-1/2"	6"
SE50305BPHS	1/2"	1-1/2"	1/4"	4-1/2"	6"

**TOOLS HAVE DRILL POINT END

Call to find your Nearest Distributor
PHONE: 828-324-2019

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"	2-1/2"	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 5-7BPBS



STYLE 5-7BPBS

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"	7"

DRILL-POINT DRILL, STYLE 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 5-8BPBS



STYLE 5-8BPBS

Made from high-speed steel.

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



STYLE 5-8BPBS

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"	2-1/4"	4-1/2"
SE80214	1/4"	2-1/4"	2-1/4"	4-1/2"
SE80217	5/16"	2-1/4"	2-1/4"	4-1/2"
SE80218	3/8"	2-1/4"	2-1/4"	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"	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"	7/16"	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



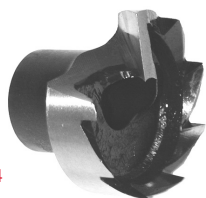
Style 8HSLH

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.

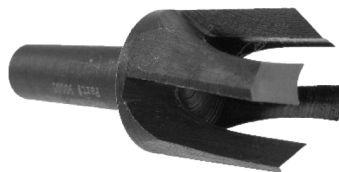
Please note that center drills are not included in the sale of counterbores.

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"	3-15/16"	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"	5-1/2"	2-1/2"	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

BRADPOINT DRILL, STYLE 19



Style 19

Made from carbon steel.

PART #	CED	CEL	SHANK	OAL
SE19001	1/8"	3"	1/2"	5"
SE19002	5/32"	3"	1/2"	5"
SE19003	3/16"	3"	1/2"	5"
SE19004	7/32"	3"	1/2"	5"
SE19005	1/4"	3"	1/2"	5"
SE19009	5/16"	3"	1/2"	5"
SE19012	3/8"	3"	1/2"	5"
SE19015	7/16"	3"	1/2"	5"
SE19016	29/64"	3"	1/2"	5"
SE19018	1/2"	3"	1/2"	5"
SE19022	5/8"	3"	1/2"	5"
SE19025	3/4"	3"	1/2"	5"
SE19027	7/8"	3"	1/2"	5"
SE19028	1"	3"	1/2"	5"
SE19029	1-1/8"	3"	1/2"	5"
SE19030	1-1/4"	3"	1/2"	5"

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"	3"	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



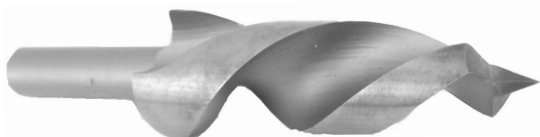
Style 19HS

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 20



Shank length 1-1/2".

Made from carbon tool steel.

PART #	CED	CEL	SHANK	OAL
SE20002	5/32"	4"	1/2"	6"
SE20003	3/16"	4"	1/2"	6"
SE20006	1/4"	4"	1/2"	6"
SE20007	17/64"	4"	1/2"	6"
SE20010	5/16"	4"	1/2"	6"
SE20013	3/8"	4"	1/2"	6"
SE20016	7/16"	4"	1/2"	6"
SE20019	1/2"	4"	1/2"	6"
SE20021	17/32"	4"	1/2"	6"

CONTINUED ON NEXT PAGE

SE20022	9/16"	4"	1/2"	6"
SE20024	5/8"	4"	1/2"	6"
SE20025	21/32"	4"	1/2"	6"
SE20026	11/16"	4"	1/2"	6"
SE20028	3/4"	4"	1/2"	6"
SE20032	7/8"	4"	1/2"	6"
SE20036	1"	4"	1/2"	6"
SE20037	1-1/32"	4"	1/2"	6"
SE20038	1-1/16"	4"	1/2"	6"
SE20039	1-1/8"	4"	1/2"	6"
SE20041	1-1/4"	4"	1/2"	6"
SE20042	1-5/16"	4"	1/2"	6"
SE20043	1-3/8"	4"	1/2"	6"
SE20044	1-1/2"	4"	1/2"	6"

Other sizes available, call for pricing.

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"	4"	3/8"	5-1/2"
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"

BRAD-POINT DRILL, STYLE NO. 20CT



Style 20HS

Made from high-speed steel.

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 20HS METRIC



Style 20HS

Made from high-speed steel.

PART #	CED	CEL	SHANK	OAL
SE201022	6mm	4"	1/2"	6"
SE201051	8mm	4"	1/2"	6"
SE201081	10mm	4"	1/2"	6"
SE201111	12mm	4"	1/2"	6"
SE201122	13mm	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

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	24mm	2mm	49mm
SE295026	2.5mm	30mm	2.5mm	57mm
SE29503	3mm	33mm	3mm	61mm
SE295036	3.5mm	39mm	3.5mm	70mm
SE29504	4mm	43mm	4mm	75mm
SE295045	4.5mm	47mm	4.5mm	80mm
SE29505	5mm	52mm	5mm	86mm
SE295055	5.5mm	57mm	5.5mm	93mm
SE29506	6mm	57mm	6mm	93mm
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



Straight Shank Drill Set

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"

SOLID-CENTER MACHINE AUGER BITS, STYLE NO. 26A • Carbon tool steel

Designed for use in machines and power drills with chucks 1/2" or larger.



Style 26A Auger Bit

Single-flute design with double spurs and double cutters.

PART #	CED	CEL	SHANK	OAL
SE26115	5/16"	6"	1/2"	8"
SE26116	3/8"	6"	1/2"	8"
SE26117	7/16"	6"	1/2"	8"
SE26118	1/2"	6"	1/2"	8"
SE26119	9/16"	6"	1/2"	8"
SE26120	5/8"	6"	1/2"	8"
SE26121	11/16"	6"	1/2"	8"
SE26122	3/4"	6"	1/2"	8"
SE26123	13/16"	6"	1/2"	8"
SE26124	7/8"	6"	1/2"	8"
SE26126	1"	6"	1/2"	8"
SE26149	13/16"	10"	1/2"	12"
SE26155	3/8"	12"	1/2"	14"
SE26157	1/2"	12"	1/2"	14"
SE26159	5/8"	12"	1/2"	14"
SE26160	11/16"	12"	1/2"	14"
SE26161	3/4"	12"	1/2"	14"
SE26162	13/16"	12"	1/2"	14"
SE26163	7/8"	12"	1/2"	14"
SE26165	1"	12"	1/2"	14"

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"
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	CEL	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"	4-1/2"
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"
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 NUMERS
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.



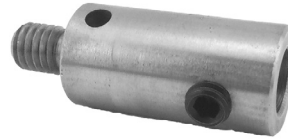
Features collars with set screws which lock into the drill flute or bit surface. Surface finish either zinc-plated, or black oxide to prevent rusting.

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"	3/8"	1/4"	#10-32
SESC-14	1/4"	7/16"	1/4"	#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"	1/2"	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"	1/2"	5/16"-18
SESC-78	7/8"	1-3/8"	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"	5"
SE55002	5/16"	5/16"	4-3/4"	5"
SE55003	3/8"	3/8"	4-3/4"	5"
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"	5"
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

45 DEGREE BEVEL BITS • 2 FLUTE



PART #	SMALL CED	CEL	ANGLE	SHANK	OAL	Inserts
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

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 BIT • 1 FLUTE



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

Replacement Insert: Part# SECS143IR insert

Replacement Screw: 10-32x6

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

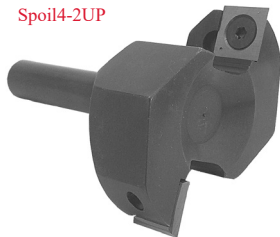
Spoil4-2



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

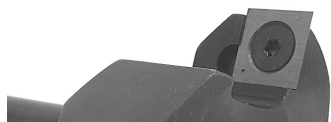
INSERT SPOILBOARD SURFACING CUTTERS - UP-SHEAR (for Balsa Core Material)

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



Face Down Cope

PART #	CED	SHANK	DESCRIPTION	COMMENTS
SEIBCSFD	3"	3/4"	Cope (Stile)	Face Down
SEIBSSFD	3"	3/4"	Stick (Rail)	Face Down

The same body fits all three styles below.

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



PART #	CED	SHANK	DESCRIPTION	COMMENTS
SEIBCS	3"	3/4"	Cope (Stile)	Face Up
SEIBSS	3"	3/4"	Stick (Rail)	Face Up

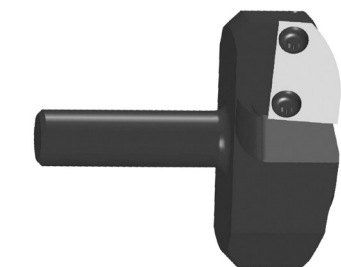
The same body fits all three styles below.

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.

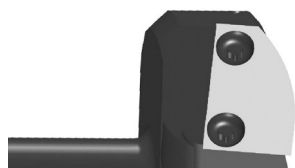
2 WING RAISED PANEL BITS



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

3/4" Shank • Face Up

2 WING RAISED PANEL BITS - INSERTS



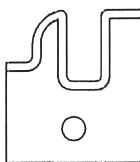
PART #	DESCRIPTION (SOLID CARBIDE)	COMMENTS	PKG QTY
SE-IRPC	Round Raised Panel Insert	Face Up	Sold each.
SE-IRPS	Straight Raised Panel Insert	Face Up	Sold each.
SE-IRPO	Ogee Raised Panel Insert	Face Up	Sold each.

The same body fits all three styles.

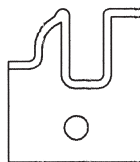
INSERT 3 WING SHAPER - COPE (STILE)



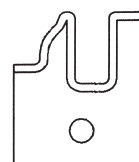
PART #	Large Diameter	BORE	DESCRIPTION
SE-BCS	4"	1-1/4"	Insert Cope (Stile) Body
SE-ICSR			Round Cope (Stile) Profile Insert
SE-ICSB			Bead Cope (Stile) Profile Insert
SE-ICSO			Ogee Cope (Stile) Profile Insert



SE-ICSR



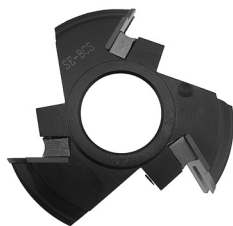
SE-ICSB



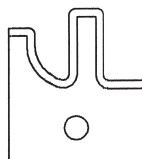
SE-ICSO

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

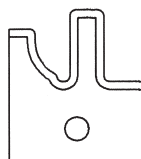
INSERT 3 WING SHAPER - STICK (RAIL)



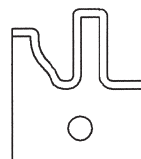
PART #	Large Diameter	BORE	DESCRIPTION
SE-BRS	4"	1-1/4"	Insert Rail (Stick) Body
SE-IRSR			Round Rail (Stick) Insert
SE-IRSB			Bead Rail (Stick) Insert
SE-IRSO			Ogee Rail (Stick) Insert



SE-IRSR



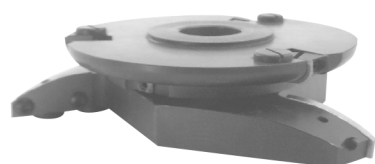
SE-IRSB



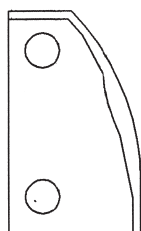
SE-IRSO

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

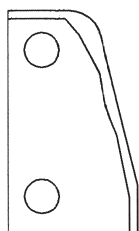
INSERT 3 WING RAISED PANEL CUTTERS



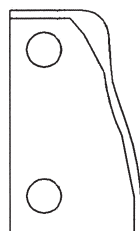
PART #	Large Diameter	BORE	DESCRIPTION
SE-BRP	7-1/2"	1-1/4"	Insert Raised Panel Body
SE-IRPC			Round Raised Panel Insert
SE-IRPS			Straight Raised Panel Insert
SE-IRPO			Ogee Raised Panel Insert



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

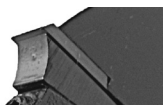


Each body comes with one set of knives

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*

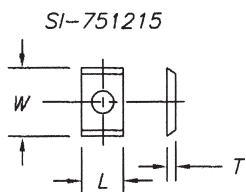
ACCESSORIES FOR 3 WING CUTTER INSERTS

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.

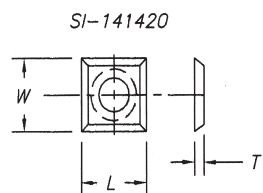
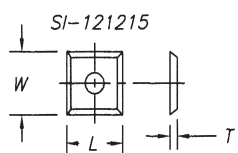
SOLID CARBIDE INSERT REPLACEMENTS AND ACCESSORIES

STANDARD REVERSIBLE INSERT KNIVES - 2 SIDED 1 HOLE



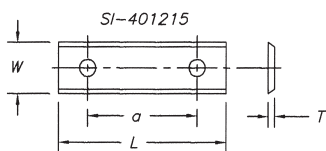
PART #	DESCRIPTION (L x W x T)
SI-751215	7.5 x 12 x 1.5
SI-861215	8.6 x 12 x 1.5
SI-901215	9.0 x 12 x 1.5
SI-961215	9.6 x 12 x 1.5
SI-131215	13 x 12 x 1.5
SI-151215	15 x 12 x 1.5
SI-181215	18 x 12 x 1.5
SI-201215	20 x 12 x 1.5
SI-251215	25 x 12 x 1.5

STANDARD REVERSIBLE INSERT KNIVES - 4 SIDED 1 HOLE



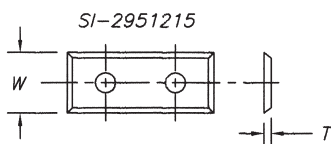
PART #	DESCRIPTION (L x W x T)
SI-10510515	10.5 x 10.5 x 1.5
SI-10510515CS	10.5 x 10.5 x 1.5 C Sink hole
SI-121215	12 x 12 x 1.5
SI-131325	13 x 13 x 2.5
SI-1361362	13.6 x 13.6 x 2.0
SI-141412	14 x 14 x 1.2
SI-141412 Holz	14 x 14 x 1.2 Holz-Her Style Insert
SI-141420	14 x 14 x 2.0
SI-141420-T10	14 x 14 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



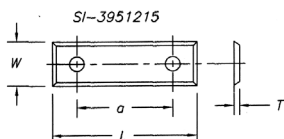
PART #	DESCRIPTION (L x W x T)
SI-251215-2	25 x 12 x 1.5 - 14 CTC
SI-301215	30 x 12 x 1.5 - 14 CTC
SI-301215CA	30 x 12 x 1.5 - 14 CTC 4 Corner Angles
SI-301215-16	30 x 12 x 1.5 - 16 CTC
SI-301215SP	30 x 12 x 1.5 T03SMG Grade
SI-301225	30 x 12 x 2.5 - 14 CTC
SI-351215	35 x 12 x 1.5 - 26 CTC
SI-401215	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



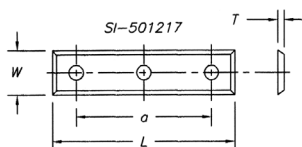
PART #	DESCRIPTION (L x W x T)
SI-287015	28 x 7.0 x 1.5
SI-2957015	29.5 x 7 x 1.5
SI-2957515	29.5 x 7.5 x 1.5
SI-2958015	29.5 x 8.0 x 1.5
SI-2959015	29.5 x 9.0 x 1.5
SI-2959015SP	29.5 x 9.0 x 1.5 T03SMG Grade
SI-2951015	29.5 x 10 x 1.5
SI-2951115	29.5 x 11 x 1.5
SI-2951215SP	29.5 x 12 x 1.5 T03SMG Grade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

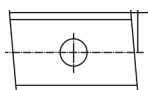
STANDARD REVERSIBLE INSERT KNIVES - 4 SIDED 3 HOLES (37 CTC)



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

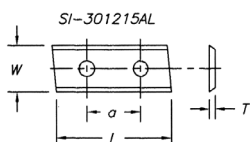
INSERT KNIVES - END ANGLE 1 HOLE

SI-201215AR



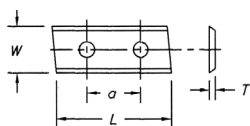
PART #	DESCRIPTION (L x W x T)
SI-201215AL	20 x 12 x 1.5 Angle Left
SI-201215AR	20 x 12 x 1.5 Angle Right

INSERT KNIVES - END ANGLE 2 HOLES (14 CTC)



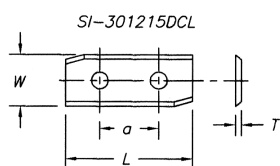
PART #	DESCRIPTION (L x W x T)
SI-301215AL	30 x 12 x 1.5 Angle Left
SI-301215AR	30 x 12 x 1.5 Angle Right

INSERT KNIVES - END ANGLE 2 HOLES (26 CTC)



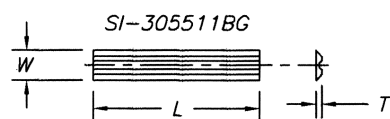
PART #	DESCRIPTION (L x W x T)
SI-401215AL	40 x 12 x 1.5 Angle Left
SI-401215AR	40 x 12 x 1.5 Angle Right
SI-501215AL	50 x 12 x 1.5 Angle Left
SI-501215AR	50 x 12 x 1.5 Angle Right

INSERT KNIVES - DOUBLE ANGLE 2 HOLES



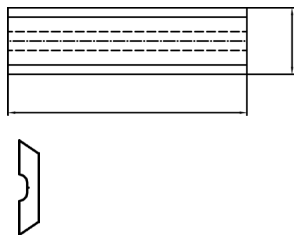
PART #	DESCRIPTION (L x W x T)
SI-301215DCL	30 x 12 x 1.5 RB-TL - 14 CTC
SI-301215DCR	30 x 12 x 1.5 LB-TR - 14 CTC
SI-501215DCL	50 x 12 x 1.5 LB-TR - 26 CTC
SI-501215DCR	50 x 12 x 1.5 RB-TL - 26 CTC

INSERT KNIVES - 2 SIDED BACK GROOVE



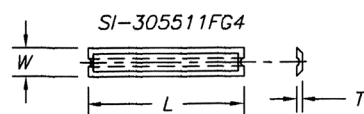
PART #	DESCRIPTION (L x W x T)
SI-125511BG	12 x 5.5 x 1.1 Back Groove
SI-205511BG	20 x 5.5 x 1.1 Back Groove
SI-305511BG	30 x 5.5 x 1.1 Back Groove
SI-305511BG- SP	30 x 5.5 x 1.1 Back Groove T03SMG
SI-405511BG	40 x 5.5 x 1.1 Back Groove
SI-505511BG	50 x 5.5 x 1.1 Back Groove
SI-505511BG-T03	50 x 5.5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

INSERT KNIVES - 2 SIDED FACE GROOVE



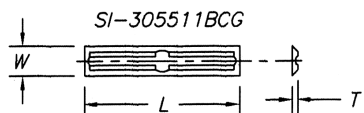
PART #	DESCRIPTION (L x W x T)
SI-978152	9.7 x 8 x 1.5 Face Groove
SI-117815	11.7 x 8 x 1.5 Face Groove
SI-1478152	14.7 x 8 x 1.5 Face Groove
SI-125511FG	12 x 5.5 x 1.1 Face Groove
SI-197815	19.7 x 8 x 1.5 Face Groove
SI-205511FG	20 x 5.5 x 1.1 Face Groove
SI-305511FG	30 x 5.5 x 1.1 Face Groove
SI-405511FG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



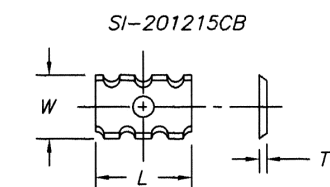
PART #	DESCRIPTION (L x W x T)
SI-205511FG4	20 x 5.5 x 1.1 Face Groove
SI-255511FG4	25 x 5.5 x 1.1 Face Groove
SI-305511FG4	30 x 5.5 x 1.1 Face Groove
SI-355511FG4	35 x 5.5 x 1.1 Face Groove
SI-405511FG4	40 x 5.5 x 1.1 Face Groove
SI-505511FG4	50 x 5.5 x 1.1 Face Groove

INSERT KNIVES - 4 SIDED BACK & CROSS GROOVE



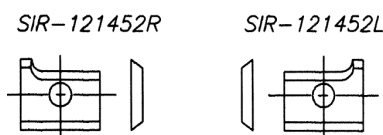
PART #	DESCRIPTION (L x W x T)
SI-205511BCG	20 x 5.5 x 1.1
SI-305511BCG	30 x 5.5 x 1.1
SI-405511BCG	40 x 5.5 x 1.1
SI-505511BCG	50 x 5.5 x 1.1

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

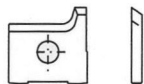
INSERT KNIVES - Radius Knives



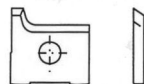
PART #	DESCRIPTION (L x W x T)
SIR-121452R	12 x 14.5 x 2 LH 2mm Radius
SIR-121452R-2	12 x 14.5 x 2 RH 2mm Radius
SIR-121452L-25	12 x 14.5 x 2 LH 2.5mm Radius
SIR-121452R-25	12 x 14.5 x 2 RH 2.5mm Radius
SIR-121452L-3	12 x 14.5 x 2 LH 3mm Radius
SIR-121452R-3	12 x 14.5 x 2 RH 3mm Radius

INSERT KNIVES - Radius Knives

SIR-151452R

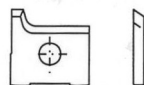
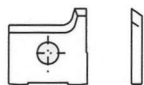


SIR-151452L



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

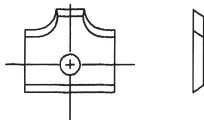
INSERT KNIVES - Radius Knives



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)

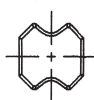
SIDR-161752-4



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

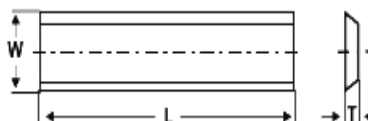
INSERT KNIVES - RADIUS PROFILE KNIVES

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

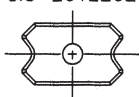
INSERT KNIVES - PORTABLE PLANERS BACK GROOVE



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

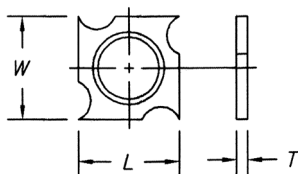
SITS-221920



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

INSERT KNIVES - SPUR/GROOVING KNIVES

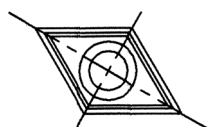
SISG-1818195



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

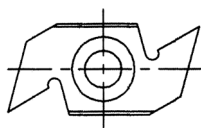
SISG-142820



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"

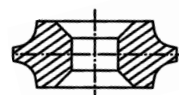


Leitz Systems "BG - TEST"



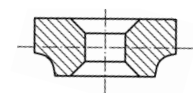
SI-152380-210

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



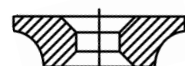
SI-152390-220

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

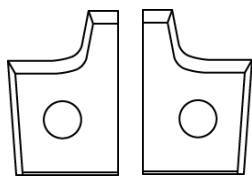
PART #	DESCRIPTION (L x W x T)
SI-152390-221	15 x 23 x 9.0 (22/1 R3)
SI-1525773-240	15 x 25.7 x 7.3 (24/0 R5)



SI-1525773-241

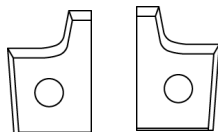
PART #	DESCRIPTION (L x W x T)
SI-1525773-241	15 x 25.7 x 7.3 (24/1 R5)

INSERT KNIVES - QUADROMAT, IMA, MFA



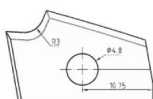
SIR-121802-LH SIR-121802-RH

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

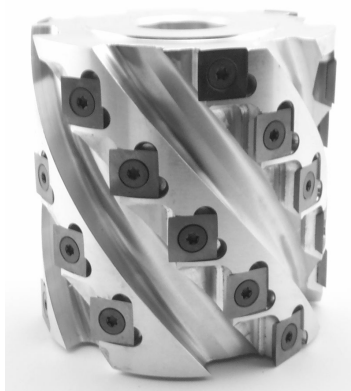


SIR-14223-3RH

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*

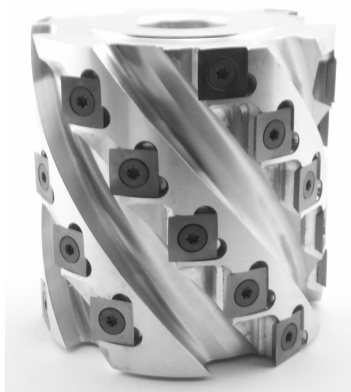
SPIRAL PLUS MOLDER HEADS



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

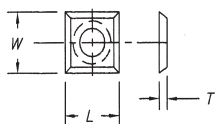
*1-13/16" is the most common bore
Aircraft Grade Aluminum Body*

SPIRAL PLUS PROFILE SHAPER HEADS



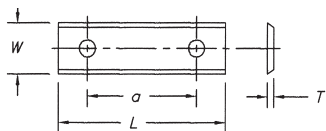
PART #	CED	CEL	BORE	WINGS
SESP-44-416	4"	4"	1 1/4"	4
SESP-45-420	4"	5"	1 1/4"	4
SESP-46-424	4"	6"	1 1/4"	4
SESP-44-624	4"	4"	1 1/4"	6
SESP-45-630	4"	5"	1 1/4"	6
SESP-46-636	4"	6"	1 1/4"	6
RB41250	4" Diameter Rub Bearing			

SPIRAL PLUS REPLACEMENT PARTS



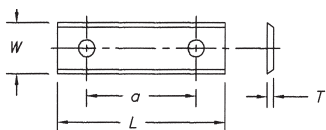
PART #	DESCRIPTION
SI-151525	Replacement Insert 15 x 15 x 2.5 (pack of 10)
SIS-Screw	Replacement Screw

COMPONENT PARTS FOR INSERT TOOLING - INSERTS



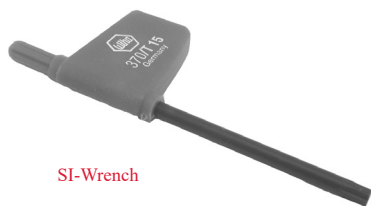
PART #	DESCRIPTION	PACK	SIDES
SI-301215	30 x 12 x 1.5	10	2 sided
SI-401215	40 x 12 x 1.5	10	2 sided
SI-501215	50 x 12 x 1.5	10	2 sided

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

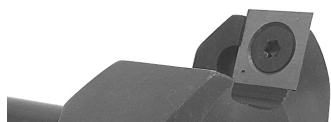
COMPONENT PARTS FOR INSERT TOOLING - WRENCHES



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

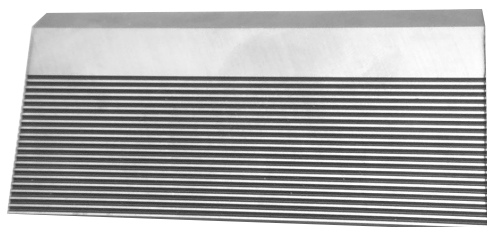


PART #	DESCRIPTION	PACK
SICS-Screw	Torx Screw	4
SI4-Screw	Torx Screw	4
SI35-Screw	Torx Screw	4
SEI-Screw	Torx Screw for SEIS1	EA
SIGSH-Screw	Torx Screw for Insert Heads	
SICS-Screw	Torx Screw for Insert Bits	EA
SI-Screw10-32x6	Screws for SECS143IR	EA
SI-Screw10-32x9	Screws for Bolt in Inserts	EA

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

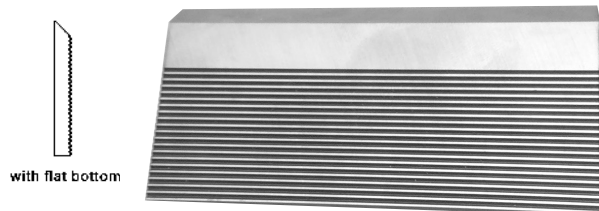
HSS 60-16 MOLDER BARS - FLAT BOTTOM - 5/16" THICK



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

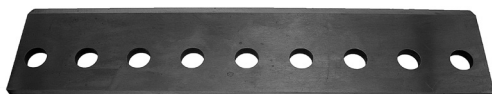
HSS 60-16 MOLDER BARS - FLAT BOTTOM - 1/4" THICK



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



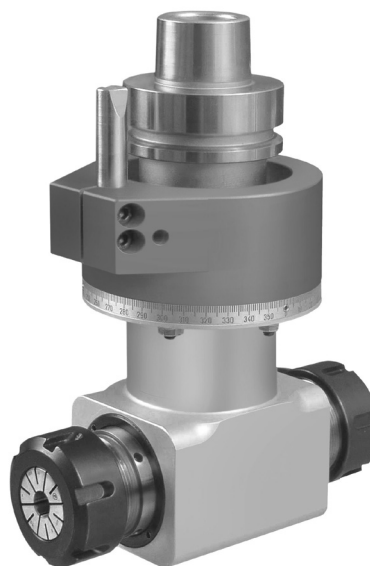
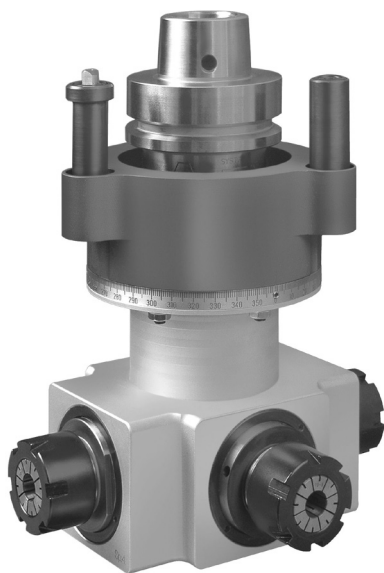
Molder Head

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)	Max Torque
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	22	25	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.

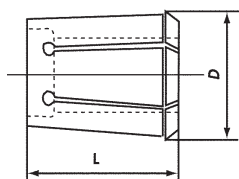
Coated nuts give up to 100% more clamping pressure over bearing nuts.

For use when speeds exceed 15,000 rpm.

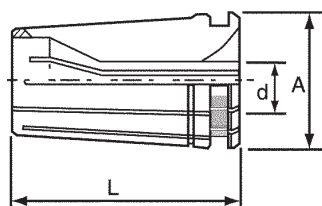
Recommended torque is 80 to 90% of max value.

See page 145 for High Speed ER Mini Nuts.

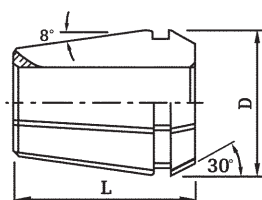
EASY COLLET REFERENCE SHEET



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")
Shoda® Collets		
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)
Heian® Collets		
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.

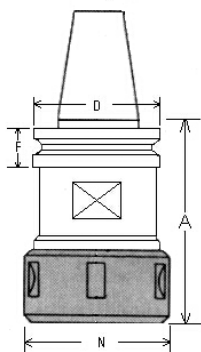
ANDI®/WEEKE®/THERMWOOD® CNC CHUCKS

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

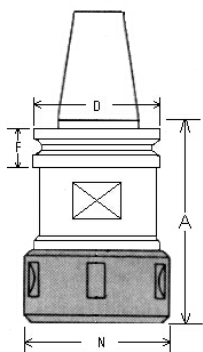


PART #	Description	D	A	F	N	Wrench
SE06106-W	BT30 x ER 20-70mm w/o Slots	46	70	20	34	SE04614
SE06106-slotnut	BT30 x ER20-70mm w/ Slots	46	70	20	35	SE04614
SE06107	BT30 x ER20-135mm w/o Slots	46	135	20	35	SE04614
SE06107-slotnut	BT30 x ER20-135mm w/ Slots	46	135	20	35	SE04614
SE06108-2.5	BT30 x ER20-2.5" 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

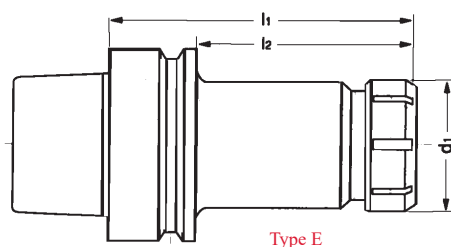
BT35 CHUCKS



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.*

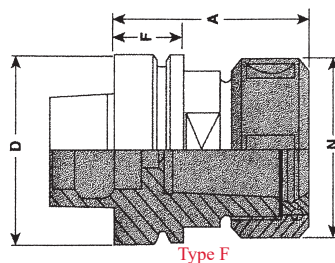
HSK E COLLET TOOLHOLDERS



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

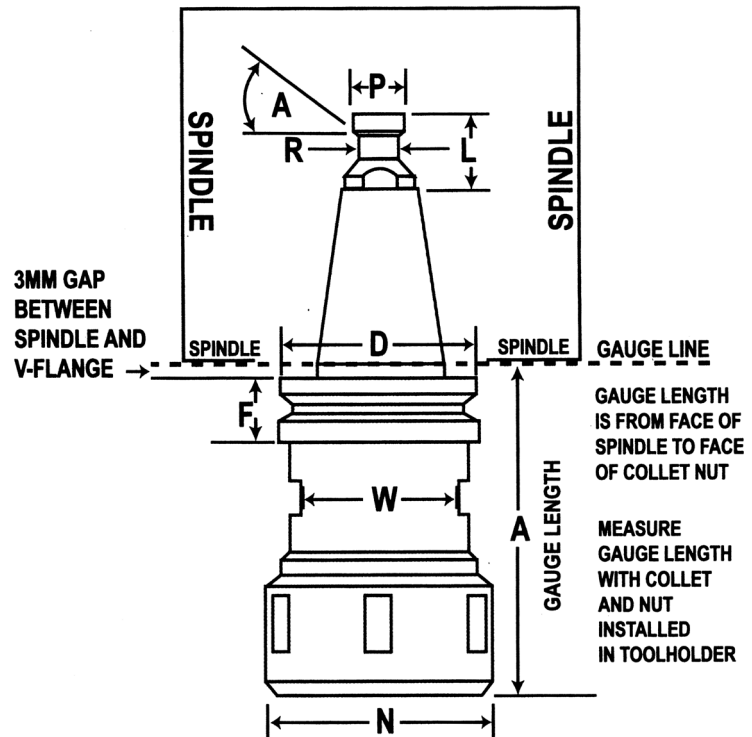
D= _____

F= _____

W= _____

A= _____

N= _____



Make & model of HSK spindle CNC router _____

Toolholder Dimensions

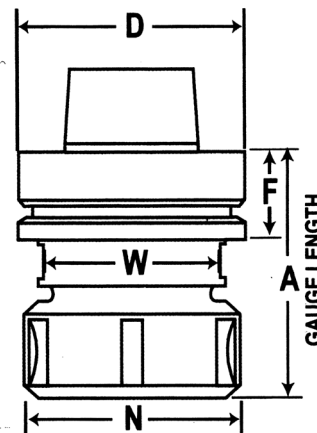
D= _____

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

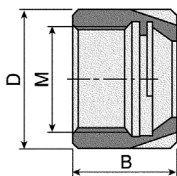


AIRPRO™ NUT SPECIFICATIONS

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

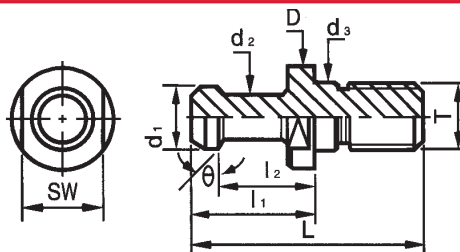


ER High-Speed Nut

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

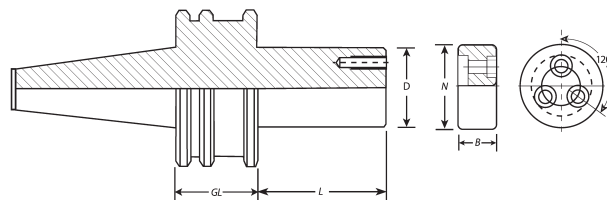
SE13019 HSD® Spindles

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

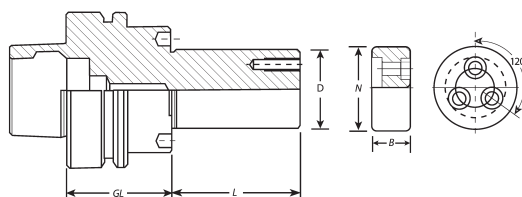


Special 3 screw design for enhanced safety

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

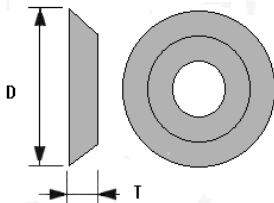


PART #	Description	Toolholder Used For
SENTS-ISO30-36	ISO 30-36mm Flats	12213-W-63, 12213-W-90
SENTS-ISO30-38	ISO 30-38mm Flats	NT-5400130
SENTS-ISO30-47	ISO 30-47mm Flats	12213-W-50, 12215-W-57
SENTS-BT30-38	BT30 Taper 38mm Flats	
SENTS-BT30-SLOT	BT30 with Drive Slots	
SENTS-BT30-41	BT 30 - Taper 41mm 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

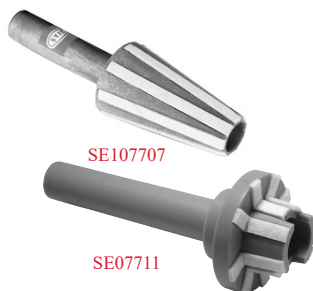


SEDC32

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



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
SESS22EXTTWA	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/Jointer
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 Jointer & 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 Tera

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

System Tera knives have a 10.0mm width and thickness of 2.3mm

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 Centrolock

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 Centrolock

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

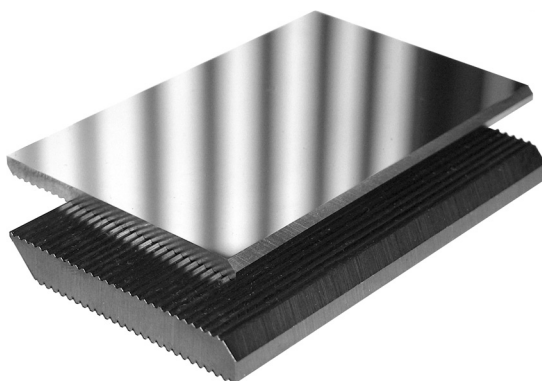
REPLACEMENT KNIVES FOR SYSTEM CENTROFIX-SOLID CARBIDE



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 AND STB STRIPS



Grade Grain Size	Binder [m %]	-----Hardness----- (SEVNB)		Transverse Rupture Strength [MPa]	Fracture Toughness (SEVNB) [MPa*m½]
		HV10	HRA		
Nano Grades					
KCR02+	2.0%	2250	95.0	2400	7.5
Ultrafine Grain					
KCR05+	3.0%	2160	94.5	2900	7.8
Submicron Grades					
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
Coarse Grain					
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

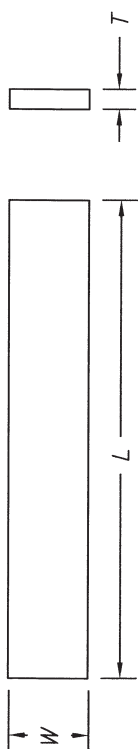
GRADE	WINTER PRIMARY WOOD	SUMMER PRIMARY WOOD	SOFTWOOD	HARDWOOD	CHIPBOARD	MDF	HDF
KCR02+					••	••••	••••
KCR05+				•••	••••	•••	•••
KCR06				••••	•••	••	••
KCR10	•	•••	••••	•••			
KCR18+	••	••••	•••	••			
KCR32	••••	••					
GC32	••••	••					
CTOPP10		••	•••	•			

*KCR32: better corrosion resistance

*GC32: better toughness

Tool life/Performance: optimum: •••• very good: ••• good: •• suitable: • not good:

STB CARBIDE STRIPS



PART #	THICKNESS	WIDTH	LENGTH
STB310	3/32" (0.093")	5/16" (0.312")	6"
STB312	3/32" (0.093")	3/8" (0.375")	6"
STB316	3/32" (0.093")	1/2" (0.500")	6"
STB320	3/32" (0.093")	5/8" (0.625")	6"
STB324	3/32" (0.093")	3/4" (0.750")	6"
STB328	3/32" (0.093")	7/8" (0.875")	6"
STB332	3/32" (0.093")	1" (1.000")	6"
STB336	3/32" (0.093")	1-1/8" (1.125")	6"
STB340	3/32" (0.093")	1-1/4" (1.250")	6"
STB344	3/32" (0.093")	1-3/8" (1.375")	6"
STB348	3/32" (0.093")	1-1/2" (1.500")	6"
STB410	1/8" (0.125")	5/16" (0.312")	6"
STB412	1/8" (0.125")	3/8" (0.375")	6"
STB416	1/8" (0.125")	1/2" (0.500")	6"
STB420	1/8" (0.125")	5/8" (0.625")	6"
STB424	1/8" (0.125")	3/4" (0.750")	6"
STB428	1/8" (0.125")	7/8" (0.875")	6"
STB432	1/8" (0.125")	1" (1.000")	6"
STB436	1/8" (0.125")	1-1/8" (1.125")	6"
STB440	1/8" (0.125")	1-1/4" (1.250")	6"
STB444	1/8" (0.125")	1-3/8" (1.375")	6"
STB448	1/8" (0.125")	1-1/2" (1.500")	6"
STB510	5/32" (0.156")	5/16" (0.312")	6"
STB512	5/32" (0.156")	3/8" (0.375")	6"
STB516	5/32" (0.156")	1/2" (0.500")	6"
STB520	5/32" (0.156")	5/8" (0.625")	6"
STB524	5/32" (0.156")	3/4" (0.750")	6"
STB528	5/32" (0.156")	7/8" (0.875")	6"
STB532	5/32" (0.156")	1" (1.000")	6"
STB536	5/32" (0.156")	1-1/8" (1.125")	6"
STB540	5/32" (0.156")	1-1/4" (1.250")	6"
STB544	5/32" (0.156")	1-3/8" (1.375")	6"
STB548	5/32" (0.156")	1-1/2" (1.500")	6"
STB610	3/16" (0.187")	5/16" (0.312")	6"
STB612	3/16" (0.187")	3/8" (0.375")	6"
STB616	3/16" (0.187")	1/2" (0.500")	6"
STB620	3/16" (0.187")	5/8" (0.625")	6"
STB624	3/16" (0.187")	3/4" (0.750")	6"
STB628	3/16" (0.187")	7/8" (0.875")	6"
STB632	3/16" (0.187")	1" (1.000")	6"
STB636	3/16" (0.187")	1-1/8" (1.125")	6"
STB640	3/16" (0.187")	1-1/4" (1.250")	6"
STB644	3/16" (0.187")	1-3/8" (1.375")	6"
STB648	3/16" (0.187")	1-1/2" (1.500")	6"

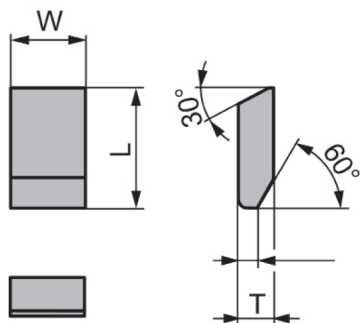
Specify Grade - HC25 = C2, MG18 = C3

Tolerances - Length +/- 0.080, Width +/- 0.020, Thickness +/- 0.004

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

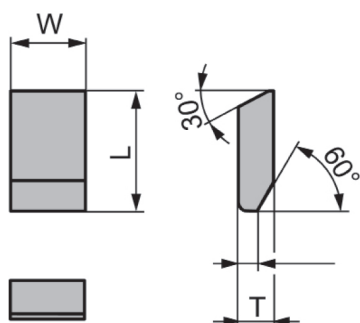


Tips in-stock can be pretinned within one week.
All tips braze ready.

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 100 Pieces

WDC STYLE - SAW TIPS

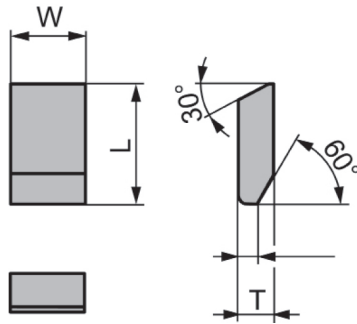


Tips in-stock can be pretinned within one week.
All tips braze ready.

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 100 Pieces

WEC STYLE - SAW TIPS

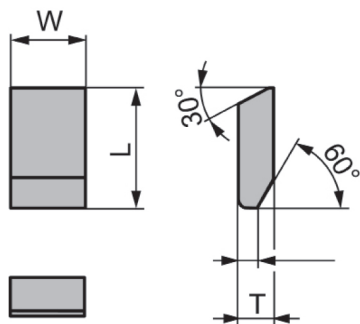


Tips in-stock can be pretinned within one week.
All tips braze ready.

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	0.372	0.175	0.093	30	0	60
WEC 7180	0.372	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 100 Pieces

WFC STYLE - SAW TIPS

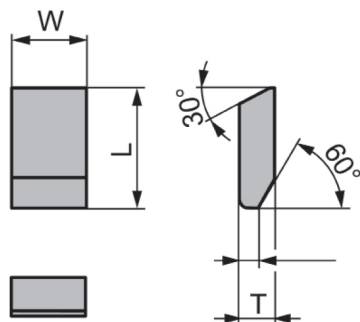


Tips in-stock can be pretinned within one week.
All tips braze ready.

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 100 Pieces

WGC STYLE - SAW TIPS

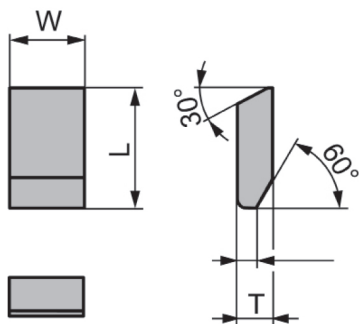


Tips in-stock can be pretinned within one week.
All tips braze ready.

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 100 Pieces

WHC STYLE - SAW TIPS

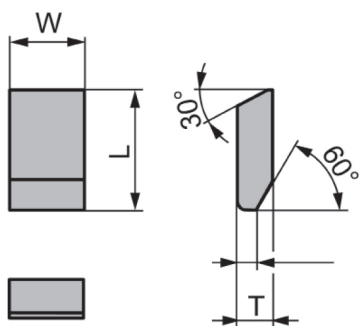


Tips in-stock can be pretinned within one week.
All tips braze ready.

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 100 Pieces

WQC STYLE - SAW TIPS

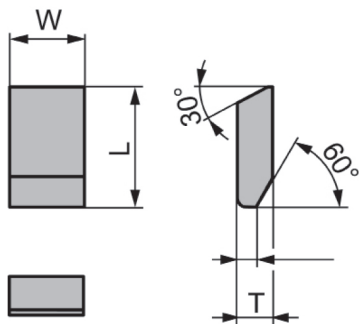


Tips in-stock can be pretinned within one week.
All tips braze ready.

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 100 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 100 Pieces

WDC RIGHT STYLE - SAW TIPS



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 100 Pieces

WDC LEFT STYLE - SAW TIPS



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 100 Pieces

WGC RIGHT STYLE - SAW TIPS



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 100 Pieces

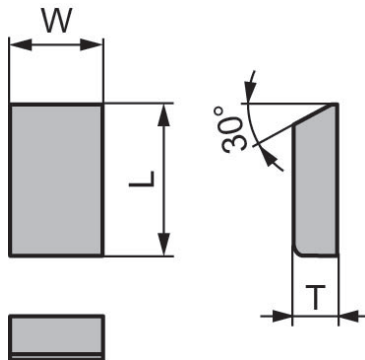
WGC LEFT STYLE - SAW TIPS



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 100 Pieces

WA STYLE - SAW TIPS

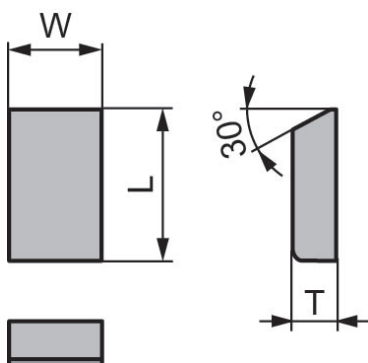


STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WA 7085	0.250	0.085	0.062	30	0	0
WA 7091	0.250	0.091	0.062	30	0	0
WA 7105	0.250	0.105	0.062	30	0	0
WA 7110	0.250	0.110	0.062	30	0	0
WA 7115	0.250	0.115	0.062	30	0	0
WA 7130	0.250	0.130	0.062	30	0	0
WA 7150	0.250	0.150	0.062	30	0	0
WA 7160	0.250	0.160	0.062	30	0	0
WA 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 100 Pieces

Tips in-stock can be pretinned within one week.
All tips braze ready.

WB STYLE - SAW TIPS

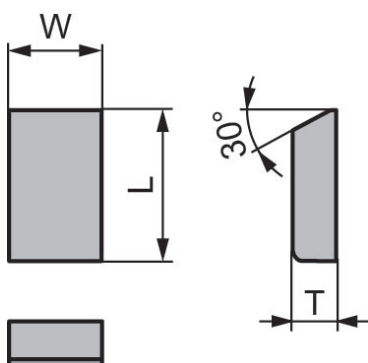


STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WB 7100	0.281	0.100	0.078	30	0	0
WB 7119	0.281	0.119	0.078	30	0	0
WB 7120	0.281	0.120	0.078	30	0	0
WB 7135	0.281	0.135	0.078	30	0	0
WB 7150	0.281	0.150	0.078	30	0	0
WB 7165	0.281	0.165	0.078	30	0	0
WB 7180	0.281	0.180	0.078	30	0	0
WB 7195	0.281	0.195	0.078	30	0	0
WB 7215	0.281	0.215	0.078	30	0	0

Sold in Packs of 100 Pieces

Tips in-stock can be pretinned within one week.
All tips braze ready.

WC STYLE - SAW TIPS

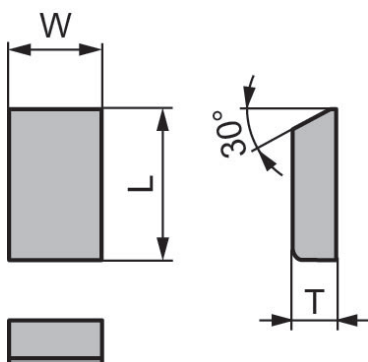


STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WC 7100	0.281	0.100	0.093	30	0	0
WC 7135	0.281	0.135	0.093	30	0	0
WC 7150	0.281	0.150	0.093	30	0	0
WC 7165	0.281	0.165	0.093	30	0	0
WC 7185	0.281	0.185	0.093	30	0	0

Sold in Packs of 100 Pieces

Tips in-stock can be pretinned within one week.
All tips braze ready.

WD STYLE - SAW TIPS

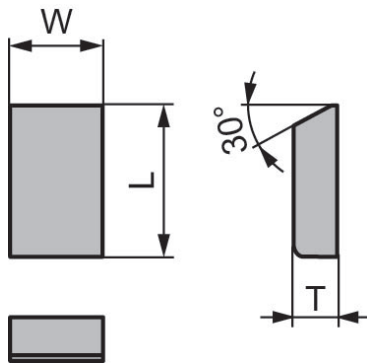


STYLE	LENGTH	WIDTH	THICKNESS	a	B	Y
WD 7115	0.312	0.115	0.093	30	0	0
WD 7120	0.312	0.120	0.093	30	0	0
WD 7135	0.312	0.135	0.093	30	0	0
WD 7140	0.312	0.140	0.093	30	0	0
WD 7150	0.312	0.150	0.093	30	0	0
WD 7165	0.312	0.165	0.093	30	0	0
WD 7170	0.312	0.170	0.093	30	0	0
WD 7175	0.312	0.175	0.093	30	0	0
WD 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 100 Pieces

Tips in-stock can be pretinned within one week.
All tips braze ready.

WE STYLE - SAW TIPS

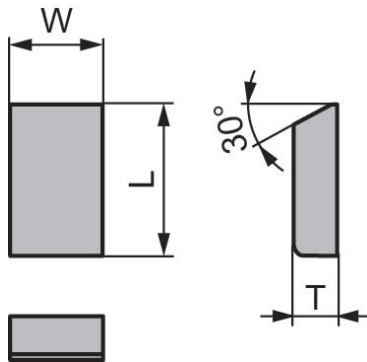


Tips in-stock can be pretinned within one week.
All tips braze ready.

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 100 Pieces

WF STYLE - SAW TIPS

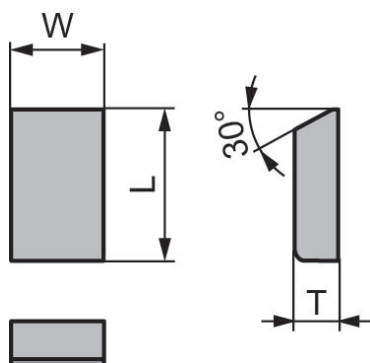


Tips in-stock can be pretinned within one week.
All tips braze ready.

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 100 Pieces

WG STYLE - SAW TIPS

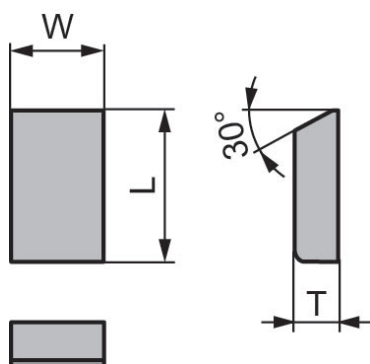


Tips in-stock can be pretinned within one week.
All tips braze ready.

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 100 Pieces

WQ STYLE - SAW TIPS

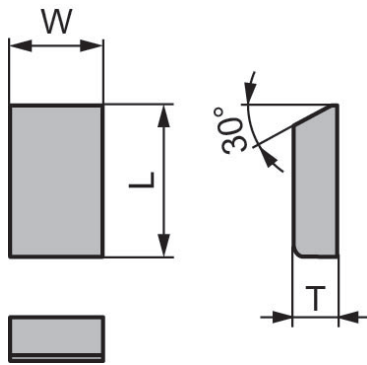


Tips in-stock can be pretinned within one week.
All tips braze ready.

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 100 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 100 Pieces

Tips in-stock can be pretinned within one week.
All tips braze ready.

INDEX TABLE (ALPHA NUMERIC LISTING)

BPD5303LH	91	CSP1606LH	93	FBL125-3A2	73	HMDUD565	15
BPD5303RH	91	CSP1606RH	93	FBL125-3A5	73	HMDUD566	15
BPD5304LH	91	CSP1607LH	93	FBL157-3	73	HMDUD750	15
BPD5304RH	91	CSP1607RH	93	FBL157-3A2	73	HMDUD751*	15
BPD5305LH	91	CSP1808LH	93	FBL157-3A5	73	HMDUD751A	15
BPD5305RH	91	CSP1808RH	93	FBL187-3	73	HMDUD755	15
BPD53032LH	91	CSP1809LH	93	FBL187-3A2	73	HMDUD756*	15
BPD53032RH	91	CSP1809RH	93	FBL187-3A5	73	HMDUD795	15
BPD53035LH	91	CSP2010LH	93	FBL250-3	73	HRD202MD	16
BPD53035RH	91	CSP2010RH	93	FBL250-3A2	73	HRD218MD	16
BPD53045LH	91	CSP2012LH	93	FBL250-3A5	73	HRD220MD	16
BPD53045RH	91	CSP2012RH	93	HHUDUD539	15	HRD237MD	16
CD4502LH	90	CSP16250LH	93	HHUDUD545	15	HRD255MD	16
CD4502RH	90	CSP16250RH	93	HHUDUD550	15	HRD260MD	16
CD53025LH	90	DA3502	91	HHUDUD551	15	HRU103MD	16
CD53025RH	90	DA3503	91	HHUDUD555	15	HRU114MD	16
CD53028LH	90	DA3504	91	HHUDUD558	15	HRU120MD	16
CD53028RH	90	DA3505	91	HHUDUD565	15	HRU137MD	16
Center Drills * Drill Point	90	DA35025	91	HHUDUD566	15	HRU155MD	16
CHDUD8350	14	DA35028	91	HHUDUD750	15	HRU160MD	16
CHDUD8375	14	DA35032	91	HHUDUD751	15	N/A	154
CMDUD350	14	DA35035	91	HHUDUD754	15	N/A	154
CMDUD375	14	DA35045	91	HHUDUD758	15	N/A	154
CSH20510LH	93	DACSP screw	91	HHUDUD766	15	N/A	154
CSH20510RH	93	FBL062-3	73	HMDUD445	15	N/A	154
CSH201112LH	93	FBL062-3A2	73	HMDUD539	15	N/A	154
CSH201112RH	93	FBL062-3A5	73	HMDUD550	15	N/A	154
CSP1604LH	93	FBL093-3	73	HMDUD551	15	PCO-14	66
CSP1604RH	93	FBL093-3A2	73	HMDUD551-1	15	PK7000	150
CSP1605LH	93	FBL093-3A5	73	HMDUD555	15	PK7002	150
CSP1605RH	93	FBL125-3	73	HMDUD558	15	PK7004	150

PK7006	150	PKC7043	150	SBE115-ES	76	SCBP7008RH	91
PK7008	150	PKC7045	150	SBE117	76	SCBP7010LH	91
PK7010	150	PKC7049	150	SBE119	76	SCBP7010RH	91
PK7012	150	PKC7051	150	SBE120	76	SCD210	10
PK7014	151	PKC7055	150	SBE121	76	SCD210-BLK	10
PK7016	150	PKC7057	150	SBE122	76	SCD215	10
PK7018	150	PKC7059	150	SBE123	76	SCDT7525*	46
PK7020	150	PKC7061	150	SBE124	76	SCF200	10
PK7022	150	PKC7063	150	SBE125	51	SCF200-BLK	10
PK7024	150	PKC7067	150	SBE125	60	SCF200DB	10
PK7026	150	PKC7073	150	SBE125	64	SCF203	10
PK7028	150	PKC7075	151	SBE125	75	SCF205*	10
PK7030	151	PKC7076	150	SBE125	76	SCF205-25*	10
PK7032	150	PKC7079	150	SBE127	76	SCFB100	13
PK7034	150	PKC7081	151	SBE128	76	SCFB110	13
PK7036	150	PKC7083	151	SBE129	76	SCFB120	13
PK7038	150	PKC7085	151	SBE130	76	SCFB130	13
PK7040	150	PKC7087	150	SBE135	76	SCFB140	13
PK7042	150	PKC7089	150	SBE138	76	SCFB150	13
PK7044	150	PKC7091	150	SBE140	76	SCFB230	11
PK7046	150	PKC7093	150	SBE140-ES	76	SCHF240	10
PK7048	150	PKC7095	150	SBE145	76	SCHF242	10
PK7050	150	PKC7099	150	SBE147	76	SCHF244	10
PK7052	150	PKC7101	150	SBE149	76	SCN118	12
PK7054	150	PKC7103	151	SBE150	76	SCN135	12
PK7056	150	PKC7105	150	SBE152	76	SCN155	12
PK7058	150	PKC7109	151	SBE153	76	SCOMUD780	14
PK7060	150	PKC7111	150	SBE154	76	SCRS250	11
PK7062	150	PKC7113	150	SBE155	76	SCRV271	11
PK7064	150	PKC7115	150	SBE160	76	SCRV273	11
PK7066	150	PKC7117	150	SBE188	76	SCRV275	11
PK7068	150	PKC7119	150	SBE193	76	SCRV275*	43
PK7070	150	PKC7121	150	SBE195	76	SCRV277	11
PK7072	150	PKC7123	150	SBE197	76	SCRV277*	43
PK7074	151	PKC7127	150	SBE200	77	SCRV279	11
PK7076	150	QCDA1001RH	92	SBESS	76	SCRV279*	43
PK7078	150	QCDA1002LH	92	SBESS-New*	76	SCVG260	10
PK7080	151	QCDA1003RH	92	SBK022	77	SCVG260*	44
PK7082	151	QCDA1004LH	92	SBNU125	11	SCVG264	10
PK7084	151	QCDA1005RH	92	SBNU250	11	SCVG264*	45
PK7086	150	QCDA1006LH	92	SBNU316	11	SCVG264-212	10
PK7088	150	QCDA8001RH	92	SBNU375	11	SCVP5805LH	91
PK7090	150	QCDA8002LH	92	SBNU500	11	SCVP5805RH	91
PK7092	150	QCDA8003RH	92	SBNU750	11	SCVP5808LH	91
PK7094	150	QCDA8004LH	92	SBPT1	85	SCVP5808RH	91
PK7096	150	QCDA8005RH	92	SBPT1F	85	SCVP7005LH	91
PK7098	150	QCDA8006LH	92	SBPT1T	85	SCVP7005RH	91
PK7100	150	QCDA-Biesse®	93	SC110	13	SCVP7008LH	91
PK7102	151	QCDA-Morbidelli®	93	SC120	13	SCVP7008RH	91
PK7104	150	QCDA-screw	93	SC1690L*	47	SDK500	85
PK7106	150	QCHDA250	93	SC1690R*	47	SDK510	85
PK7108	151	RB41250	121	SCB220	10	SDK510-750	85
PK7110	150	RB41250	129	SCB220-BLK	10	SDK560	85
PK7112	150	SAR250	77	SCB220DB	10	SDK565	85
PK7114	150	SAR375	77	SCB220LH*	10	SDR187-4	74
PK7116	150	SAR500	77	SCBP5703LH	91	SDR187-6	74
PK7118	150	SAR500-1716	60	SCBP5703RH	91	SDR250-4	74
PK7120	150	SAR500-1716	75	SCBP5704LH	91	SDR250-6	74
PK7122	150	SAR500-1716	77	SCBP5704RH	91	SDR290	84
PK7124	150	SAR500WS	64	SCBP5705LH	91	SDR295	84
PK7126	150	SARF250	78	SCBP5705RH	91	SDR300	84
PKC7001	150	SARF250-XL3	78	SCBP5706LH	91	SDR300-QCF	84
PKC7003	150	SARF500	78	SCBP5706RH	91	SDR303	84
PKC7007	150	SARF500-XL3	78	SCBP5708LH	91	SDR305	84
PKC7009	150	SARJM250	78	SCBP5708RH	91	SDR306	84
PKC7013	150	SARJM375	78	SCBP7003LH	91	SDR310	84
PKC7019	150	SARJM500	78	SCBP7003RH	91	SDR310-QCF	84
PKC7021	150	SBE100	76	SCBP7004LH	91	SDR315	84
PKC7023	150	SBE105	76	SCBP7004RH	91	SDR320	84
PKC7025	150	SBE106	76	SCBP7005LH	91	SDR320-QCF	84
PKC7027	150	SBE107	76	SCBP7005RH	91	SDR325	84
PKC7029	150	SBE110	76	SCBP7006LH	91	SDR325-QCF	84
PKC7037	150	SBE115	76	SCBP7006RH	91	SDR330	84
PKC7041	150	SBE115-BK	76	SCBP7008LH	91	SDR330-QCF	84

SDR340	84	SE1084	36	SE1024	35	SE1427	44
SDR340-QCF	84	SE1085	36	SE1024-38	78	SE1428	44
SDR345-QCF	84	SE1085LH	37	SE1024A	35	SE1429	44
SDR350	84	SE1086	36	SE1024B	35	SE1430	44
SDR350-QCF	84	SE1087	36	SE1025	35	SE1431	44
SDR360	84	SE1087LH	37	SE1025A	35	SE1432	44
SDR360-QCF	84	SE1088	36	SE1025B	35	SE1432A	44
SDR370	84	SE1090	36	SE1025C	35	SE1433	44
SDR380	84	SE1091	36	SE1026	35	SE1434	44
SDR390	84	SE1091LH	37	SE1026A	35	SE1434A	44
SDR390-QCF	84	SE1092	36	SE1027	35	SE1435	44
SDR400	84	SE1093	36	SE1027A	35	SE1436	44
SDR410	84	SE1094	36	SE1027B	35	SE1440	44
SDR413	84	SE1095	36	SE1027C	35	SE1440B*	44
SDR414	84	SE1095A	36	SE1027D	35	SE1450	43
SDR415	84	SE1095B	36	SE1028	35	SE1452	43
SDR424	84	SE1096	36	SE1029	35	SE1460	43
SDR425	84	SE1096A	36	SE1029A	35	SE1462	43
SDR430	84	SE1097	36	SE1030	35	SE1464	43
SDR440	84	SE1098	36	SE1031	35	SE1474	44
SDR-DRILL	84	SE1099	36	SE1032	35	SE1476	44
SDR-DRILL	85	SE1100	36	SE1032-38	78	SE1478	44
SDR-SCREW	84	SE1101	36	SE1032A	35	SE1480	44
SDR-SCREW	85	SE1105	37	SE1033	35	SE1501	44
SDS105	76	SE1105LH	37	SE1033A	34	SE1502	44
SDS115	76	SE1107	37	SE1035	34	SE1502A	44
SDS120	76	SE1107LH	37	SE1036	34	SE1502B	44
SE21-ARBOR	51	SE1201	38	SE1039	35	SE1503	44
SE50TH	148	SE1202	38	SE1040	35	SE1504	44
SE54-212-012	149	SE1203	38	SE1041	35	SE1505	44
SE061BT353276	142	SE1203-212	38	SE1043	35	SE1507	44
SE200TH	148	SE1252	38	SE1049	34	SE1508	44
SE300TH	148	SE1256	38	SE1050	34	SE1526	45
SE348-14	78	SE1261	38	SE1051	34	SE1541*	45
SE348-38	78	SE1270	38	SE1052	34	SE1550	45
SE540-14	78	SE1300	37	SE1054	34	SE1560	45
SE540-38	78	SE1301	37	SE1055	34	SE1568	45
SE750-19	145	SE1302	37	SE1055A	34	SE1570	45
SE750-19	145	SE1303	35	SE1055C	34	SE1572	45
SE750TBU	121	SE1303	37	SE1058*	36	SE1574	45
SE751	66	SE1304	36	SE1058LH	37	SE1580	45
SE753	66	SE1304	37	SE1059*	36	SE1582	45
SE755	66	SE1370	42	SE1060*	36	SE1584	45
SE756	66	SE1372	42	SE1060LH	37	SE1590	47
SE757	66	SE1372B*	42	SE1061*	36	SE1592	47
SE758	66	SE1373	42	SE1062*	36	SE1596	47
SE759	66	SE1374	42	SE1062LH	37	SE1598	47
SE918	93	SE1376	42	SE1063*	36	SE1601	46
SE921	93	SE1376B**	42	SE1064*	36	SE1605	46
SE924	93	SE1402	43	SE1065A	36	SE1610	46
SE927	93	SE1403	43	SE1065L*	36	SE1611	46
SE930	93	SE1404	43	SE1066	36	SE1613	46
SE940	93	SE1404B	43	SE1066LH	37	SE1615	46
SE942	93	SE1405	43	SE1067	36	SE1615LH	46
SE944	93	SE1405A	43	SE1069	36	SE1618	46
SE946	93	SE1405B	43	SE1069DS	36	SE1618LH	46
SE1000TBU	121	SE1406	43	SE1069LH	37	SE1620	46
SE1004	34	SE1406A	43	SE1070	36	SE1620LH	46
SE1005	34	SE1406B	43	SE1071	36	SE1622	46
SE1007	34	SE1406BB	43	SE1072	36	SE1625	46
SE1011	35	SE1406C	43	SE1072LH	37	SE1630	46
SE1012	35	SE1407	43	SE1073	36	SE1635	46
SE1013	35	SE1408	43	SE1073M	36	SE1635LH	46
SE1014	35	SE1410	43	SE1074	36	SE1640	46
SE1014LH	37	SE1411	43	SE1075	36	SE1645	46
SE1016	35	SE1412	43	SE1075A	36	SE1645LH	46
SE1016-01	35	SE1413	43	SE1076	36	SE1661	46
SE1018	35	SE1414	43	SE1077	36	SE1662	46
SE1018A	35	SE1415	43	SE1078	36	SE1663	46
SE1019	35	SE1416	43	SE1079	36	SE1664	46
SE1021	35	SE1417	43	SE1080	36	SE1666	46
SE1022	35	SE1420	43	SE1082	36	SE1668	46
SE1023	35	SE1425	44	SE1083	36	SE1672	46
SE1023A	35	SE1426	44	SE1083A	36	SE1674	46

SE1680	46	SE2006DS	68	SE2406	39	SE2970	69
SE1690L	46	SE2007	49	SE2407	39	SE2972	69
SE1690R	46	SE2007DS	68	SE2408	39	SE2974	69
SE1695L	46	SE2008	49	SE2409	39	SE2986	70
SE1695R	46	SE2008A	49	SE2410	39	SE2988	70
SE1700	39	SE2008DS	68	SE2410DS	68	SE2990	70
SE1701	39	SE2009	49	SE2414	39	SE2991	71
SE1701-Nail	39	SE2009A	49	SE2416*	40	SE2992	71
SE1702	39	SE2009ADS	68	SE2417*	40	SE2994	71
SE1702-Nail	39	SE2009B	49	SE2418	40	SE3000	37
SE1703	39	SE2009DS	68	SE2419	40	SE3000A	37
SE1704	39	SE2010	49	SE2420	41	SE3001	37
SE1705	39	SE2010DS	68	SE2425	40	SE3003	37
SE1706	39	SE2011	49	SE2426	40	SE3004	37
SE1725	38	SE2011DS	68	SE2457	40	SE3005	37
SE1726	38	SE2012	49	SE2458	40	SE3006	37
SE1740	39	SE2013*	49	SE2468	40	SE3007	37
SE1741	39	SE2014*	49	SE2470	40	SE3007A	37
SE1742	39	SE2015*	49	SE2500	40	SE3008	37
SE1750	39	SE2016*	49	SE2501	40	SE3014	37
SE1751	39	SE2033	67	SE2502	40	SE3018	37
SE1800	47	SE2034	67	SE2504	40	SE3019	37
SE1800A	47	SE2036	67	SE2505	40	SE3020	37
SE1800B	47	SE2050	50	SE2530	53	SE3021	37
SE1801	47	SE2051	50	SE2532	53	SE3022	37
SE1801A	47	SE2052	50	SE2538	53	SE3023	37
SE1802	47	SE2055	50	SE2554	40	SE3025	38
SE1803	47	SE2056	50	SE2555	40	SE3028	38
SE1803A	47	SE2057	50	SE2560	41	SE3029	38
SE1804	47	SE2058	50	SE2561	41	SE3032	38
SE1804A	47	SE2060	50	SE2562	41	SE3050	52
SE1805	47	SE2062	50	SE2570	41	SE3052	52
SE1806	47	SE2066	50	SE2575	41	SE3070	52
SE1807	47	SE2068	50	SE2580	41	SE3075	52
SE1810	47	SE2070	50	SE2900	67	SE3094	53
SE1900	47	SE2072	50	SE2901	67	SE3098	53
SE1901	47	SE2074	50	SE2902	67	SE3100	53
SE1902	48	SE2076	50	SE2903	67	SE3110	53
SE1903	48	SE2078	50	SE2904	67	SE3114*	53
SE1904	48	SE2160	51	SE2905	67	SE3160	53
SE1906	48	SE2160LH	51	SE2906	67	SE3162	53
SE1908	48	SE2160RH	51	SE2907	67	SE3164	53
SE1910	48	SE2162	51	SE2908	67	SE3166	53
SE1912	48	SE2162LH	51	SE2909	67	SE3170	53
SE1913	48	SE2162RH	51	SE2910	67	SE3172	53
SE1914	48	SE2164	51	SE2911	67	SE3180	53
SE1916	48	SE2164LH	51	SE2912	67	SE3182	53
SE1917	48	SE2164RH	51	SE2913	67	SE3190	54
SE1918	48	SE2200	51	SE2914	67	SE3192	54
SE1920	48	SE2201	51	SE2921	70	SE3194	54
SE1922	48	SE2202	51	SE2922	70	SE3196	54
SE1924	48	SE2203	51	SE2923	70	SE3200	54
SE1951	47	SE2210	51	SE2924	70	SE3202	54
SE1954	47	SE2298*	51	SE2926	67	SE3203	54
SE1962	47	SE2300	51	SE2927	69	SE3204	54
SE1965	48	SE2300A	51	SE2928	69	SE3205	54
SE1978	48	SE2300B	51	SE2930	68	SE3206	54
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SE1981	48	SE2302	52	SE2932	68	SE3207A	54
SE1982	48	SE2305	52	SE2933	68	SE3208	54
SE1984	48	SE2306	52	SE2934	68	SE3209	55
SE2000	49	SE2307	52	SE2935	68	SE3210	55
SE2000A	49	SE2308A	52	SE2940	69	SE3211	55
SE2000C	49	SE2309	52	SE2942	69	SE3212	55
SE2000D	49	SE2310	52	SE2944	69	SE3214	55
SE2001	49	SE2315	52	SE2945	68	SE3215	55
SE2002	49	SE2400	39	SE2950	69	SE3216	55
SE2003	49	SE2400A	39	SE2952	70	SE3218	55
SE2003A	49	SE2401	39	SE2954	70	SE3220	55
SE2004	49	SE2402	39	SE2956	70	SE3222	55
SE2005	49	SE2403	39	SE2958	69	SE3224	55
SE2005A	49	SE2404	39	SE2960	70	SE3226	55
SE2005ADS	68	SE2404A	39	SE2964	71	SE3230	55
SE2006	49	SE2405	39	SE2968	69	SE3232	55

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SE3236	55	SE03691	135	SE04216-116	137	SE04232-332	137
SE3241	56	SE03691	140	SE04216-316	137	SE04232-516	137
SE3243	56	SE03691	141	SE04216-332	137	SE04232-532	137
SE3244	56	SE03691	141	SE04216-516	137	SE04232-716	137
SE3246	56	SE03691	142	SE04216-532	137	SE04232-732	137
SE3248	56	SE03691	142	SE04216-732	137	SE04232-916	137
SE3250	56	SE3719	61	SE04216-932	137	SE04232-932	137
SE3252	56	SE3728	61	SE04216-1132	137	SE04232-1116	137
SE3254	56	SE3733	61	SE04216-1332	137	SE04232-1132	137
SE3256	56	SE3738	61	SE04220-7mm	138	SE04232-1332	137
SE3258	56	SE3752	61	SE04220-8mm	138	SE04232-1532	137
SE3265	60	SE03868	134	SE04220-10mm	138	SE04232-1732	137
SE3266	60	SE03868-1	134	SE04220-12	137	SE04232-1932	137
SE3273	56	SE03868-6mm	134	SE04220-12mm	138	SE04232-2132	137
SE3274	56	SE03868-7mm	134	SE04220-13mm	138	SE04232-2332	137
SE3276	56	SE03868-10mm	134	SE04220-14	137	SE04240-1	137
SE3278	56	SE03868-12	134	SE04220-18	137	SE04240-7mm	138
SE3280	56	SE03868-12mm	134	SE04220-38	137	SE04240-8mm	138
SE3281	56	SE03868-14	134	SE04220-316	137	SE04240-10mm	138
SE3282	55	SE03868-16mm	134	SE04220-332	137	SE04240-12	137
SE3284	56	SE03868-18	134	SE04220-516	137	SE04240-12mm	138
SE3286	57	SE03868-20mm	134	SE04220-532	137	SE04240-13mm	138
SE3288	57	SE03868-25mm	134	SE04220-716	137	SE04240-14	137
SE3294	57	SE03868-34	134	SE04220-732	137	SE04240-14mm	138
SE3296	57	SE03868-38	134	SE04220-932	137	SE04240-16mm	138
SE3305	57	SE03868-58	134	SE04220-1132	137	SE04240-18	137
SE3310	59	SE03868-78	134	SE04220-1332	137	SE04240-18mm	138
SE3315	59	SE03868-316	134	SE04220-1532	137	SE04240-20mm	138
SE3318	59	SE03868-516	134	SE04225-2mm	138	SE04240-22mm	138
SE3320	57	SE03868-716	134	SE04225-7mm	138	SE04240-25mm	138
SE3324	57	SE03868-732	134	SE04225-8mm	138	SE04240-34	137
SE3326	57	SE03868-916	134	SE04225-10mm	138	SE04240-38	137
SE3330	57	SE03868-L*	134	SE04225-12	137	SE04240-58	137
SE3342	58	SE04008-10mm	138	SE04225-12mm	138	SE04240-78	137
SE3350	58	SE04008-12	138	SE04225-13mm	138	SE04240-316	137
SE3352	58	SE04008-14	138	SE04225-14	137	SE04240-516	137
SE3354	58	SE04008-18	138	SE04225-14mm	138	SE04240-532	137
SE3360	58	SE04008-34	138	SE04225-16mm	138	SE04240-716	137
SE3362	58	SE04008-38	138	SE04225-18	137	SE04240-732	137
SE3364	58	SE04008-58	138	SE04225-34	137	SE04240-916	137
SE3370	59	SE04008-316	138	SE04225-38	137	SE04240-932	137
SE3375	60	SE04008-nut	138	SE04225-58	137	SE04240-1116	137
SE3375G	60	SE04010-1	138	SE04225-316	137	SE04240-1132	137
SE3385	60	SE04010-12	138	SE04225-332	137	SE04240-1332	137
SE3400	59	SE04010-14	138	SE04225-516	137	SE04240-1532	137
SE3401	59	SE04010-18	138	SE04225-532	137	SE04240-1732	137
SE3402	59	SE04010-34	138	SE04225-716	137	SE04240-1932	137
SE03508	134	SE04010-38	138	SE04225-732	137	SE04240-2132	137
SE03520	134	SE04010-58	138	SE04225-916	137	SE04240-2332	137
SE03520-03mm	134	SE04010-78	138	SE04225-932	137	SE04576	148
SE03520-05mm	134	SE04011-1	138	SE04225-1132	137	SE04577	148
SE03520-10mm	134	SE04011-12	138	SE04225-1332	137	SE04578	148
SE03520-12	134	SE04011-34	138	SE04225-1532	137	SE04580-16	148
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SE03520-18	134	SE04011-78	138	SE04225-1932	137	SE04587	148
SE03520-38	134	SE04018	140	SE04232-4mm	138	SE04588-R	148
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SE3525	60	SE04211-18	137	SE04232-10mm	138	SE04605-40	148
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SE3555	66	SE04211-316	137	SE04232-12mm	138	SE04613	140
SE3560	66	SE04211-332	137	SE04232-13mm	138	SE04613	141
SE3601	61	SE04211-532	137	SE04232-14	137	SE04613	142
SE3602	61	SE04211-732	137	SE04232-14mm	138	SE04613	142
SE3603	61	SE04212	138	SE04232-16mm	138	SE04613	142
SE3604	61	SE04213	138	SE04232-18	137	SE04614	140
SE3605	61	SE04216-7mm	138	SE04232-18mm	138	SE04614	141
SE3605A	61	SE04216-8mm	138	SE04232-20mm	138	SE04614	141
SE3605B	61	SE04216-10mm	138	SE04232-34	137	SE04614	141
SE3606	61	SE04216-14	137	SE04232-38	137	SE04614	141
SE3608	61	SE04216-18	137	SE04232-58	137	SE04614	141

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SE04615	141	SE5710	62	SE06110-W-60	141	SE07801	145
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SE04615	142	SE5711LH	86	SE06112	141	SE07806	145
SE04616	140	SE5711RH	86	SE06113	141	SE07808	145
SE04616	141	SE5712LH	86	SE06113-W-60	141	SE07810	145
SE04616	141	SE5712RH	86	SE06113-W-60-A*	141	SE07812	145
SE04616	141	SE5713LH	86	SE06113-W-60L	141	SE07814	145
SE04616	141	SE5713RH	86	SE06113-W-90	141	SE9128ATB	75
SE04616	141	SE5714LH	86	SE06114	141	SE9140ATB	75
SE04616	141	SE5714RH	86	SE06115	141	SE9150	75
SE04616	141	SE5715LH	86	SE6390	78	SE9160ATB	75
SE04616	141	SE5715RH	86	SE6395	78	SE9160TCG	75
SE04616	141	SE5716LH	86	SE6400	78	SE9180ATB	75
SE04616	141	SE5716RH	86	SE6401	78	SE9240ATB	75
SE04616	141	SE5717LH	86	SE6402	78	SE9260ATB	75
SE04616	141	SE5717RH	86	SE6403	78	SE9260TCGN*	75
SE04616	141	SE5718LH	86	SE7003LH	87	SE9280ATB	75
SE04616	141	SE5718RH	86	SE7003RH	87	SE9296ATB	75
SE04616	141	SE5719LH	86	SE7004LH	87	SE9500	79
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SE04616	142	SE5725	62	SE7006RH	87	SE10400	97
SE04616	142	SE5801	62	SE7007LH	87	SE10401	97
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SE04617	141	SE5805	62	SE7008RH	87	SE10406	97
SE04617	141	SE5812	65	SE7009LH	87	SE10408	97
SE04617	141	SE5814	65	SE7009RH	87	SE10409	97
SE04617	142	SE5816	65	SE7010LH	87	SE10410	97
SE04617	142	SE5818	65	SE7010RH	87	SE10411	97
SE04617	142	SE5820	65	SE7011LH	87	SE10412	97
SE04617	142	SE5900B	62	SE7011RH	87	SE10413	97
SE04617	142	SE5900E	62	SE7012LH	87	SE11125R	113
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SE04624	140	SE6001	63	SE7016LH	87	SE11281L	113
SE04888	144	SE06001	141	SE7016RH	87	SE11281R	113
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SE04891	144	SE6002	63	SE7017RH	87	SE11312R	113
SE04893	144	SE6003	63	SE7018LH	87	SE11375L	113
SE04894	144	SE6007	63	SE7018RH	87	SE11375R	113
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SE04896	144	SE06010	142	SE7019RH	87	SE11393R	113
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SE04898	144	SE6019	61	SE7020RH	87	SE11437R	113
SE5502	65	SE6020	61	SE7025LH	87	SE11500L	113
SE5504	65	SE6021	61	SE7025RH	87	SE11500R	113
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SE5610	62	SE6026	64	SE7704RH	87	SE12213-W-50-L	141
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SE5703LH	86	SE6046	64	SE7705LH	87	SE12213-W-63-L	141
SE5703RH	86	SE6050	64	SE7705RH	87	SE12213-W-90	141
SE5704LH	86	SE6050C	64	SE7706LH	87	SE12215-W-57	141
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SE5705LH	86	SE6050SP	64	SE7707LH	87	SE12407-W	141
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SE5706LH	86	SE6100F	83	SE7708LH	87	SE12700-55	146
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SE13007	99	SE14403	97	SE20024	103	SE20604	105
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SE13019	145	SE18402	100	SE20032	103	SE20605HS	105
SE13101	99	SE18405	100	SE20036	103	SE20606	105
SE13102	99	SE18407	100	SE20037	103	SE20606CT	105
SE13103	99	SE18408	100	SE20038	103	SE20606HS	105
SE13104	99	SE18409	100	SE20039	103	SE20607	105
SE13201L*	101	SE18410	100	SE20041	103	SE20607CT	105
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SE13202R	101	SE18801	99	SE20044	103	SE20608HS	105
SE13301L*	101	SE18802	99	SE20100	104	SE20609	105
SE13301R	101	SE18803	99	SE20101	104	SE20609CT	105
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SE13302R	101	SE19002	101	SE20103	104	SE20610	105
SE13500	42	SE19003	101	SE20104	104	SE20610HS	105
SE13501	100	SE19004	101	SE20105	104	SE20611	105
SE13502	100	SE19005	101	SE20106	104	SE20611CT	105
SE13503	100	SE19009	101	SE20107	104	SE20611HS	105
SE13504	100	SE19012	101	SE20108	104	SE20612	105
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SE13505	100	SE19016	101	SE20110	104	SE20613	105
SE13506	100	SE19018	101	SE20111	104	SE20613CT	105
SE13507	100	SE19022	101	SE20112	104	SE20613HS	105
SE13508	100	SE19025	101	SE20113	104	SE20614	105
SE13509	100	SE19027	101	SE20114	104	SE20614HS	105
SE13511	100	SE19028	101	SE20115	104	SE20615	105
SE13513	100	SE19029	101	SE20116	104	SE20615CT	105
SE13515	42	SE19030	101	SE20117	104	SE20615HS	105
SE13531	42	SE19100	102	SE20118	104	SE20616	105
SE13562	42	SE19101	102	SE20119	104	SE20616HS	105
SE13601	100	SE19101L	103	SE20120	104	SE20617	105
SE13603	100	SE19102	102	SE20121	104	SE20617HS	105
SE13605	100	SE19103	102	SE20122	104	SE20618	105
SE13607	101	SE19103L	103	SE20123	104	SE20618HS	105
SE13609	101	SE19104	102	SE20124	104	SE20701	104
SE13611	101	SE19105	102	SE20125	104	SE20703	104
SE13613	101	SE19105L	103	SE20126	104	SE20704	104
SE13625	42	SE19106	102	SE20128	104	SE20706	104
SE13640	42	SE19107	102	SE20201HS	105	SE20707	104
SE13656	42	SE19107L	103	SE20202HS	105	SE20708	104
SE13687	42	SE19108	102	SE20203HS	105	SE20709	104
SE13701	101	SE19109	102	SE20305HS	103	SE20710	104
SE13702	101	SE19110	102	SE20307CT	104	SE21225	139
SE13703	101	SE19110L	103	SE20307HS	103	SE21232	139
SE13704	101	SE19111	102	SE20308CT	104	SE21240	139
SE13705	101	SE19112	102	SE20308HS	103	SE22220	135
SE13706	101	SE19112L	103	SE20309HS	103	SE22220	140
SE13707	101	SE19113	102	SE20310CT	104	SE23108	145
SE13709	101	SE19114	102	SE20310HS	103	SE23111	145
SE13711	101	SE19115	102	SE20311HS	103	SE23116	145
SE13713	101	SE19116	102	SE20312CT	104	SE23120	145
SE13719	42	SE19201	102	SE20312HS	103	SE23125	145
SE13750	42	SE19202	102	SE20313HS	103	SE023949	157
SE13764	42	SE19203	102	SE20314CT	104	SE023957	157
SE13781	42	SE19204	102	SE20314HS	103	SE023960	157
SE13805	101	SE19206	102	SE20315CT	104	SE023968	157
SE13807	101	SE19207	102	SE20315HS	103	SE023971	157
SE13809	101	SE19208	102	SE20316HS	103	SE023979	157
SE13811	101	SE19209	102	SE20317CT	104	SE023982	157
SE13812	42	SE19210	102	SE20317HS	103	SE023990	157
SE13813	101	SE19995	103	SE20318HS	103	SE023993	157

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SE024004	157	SE29012L	106	SE29116L	108	SE29505	107
SE024012	157	SE29013	106	SE29117	107	SE29506	107
SE024016	157	SE29013L	106	SE29117L	108	SE29507	107
SE024024	157	SE29014	106	SE29118	107	SE29508	107
SE024027	157	SE29014L	106	SE29118L	108	SE29509	107
SE024035	157	SE29015	106	SE29119	107	SE29510	107
SE024038	157	SE29015L	106	SE29119L	108	SE29511	107
SE024046	157	SE29016	106	SE29120	107	SE29512	107
SE024049	157	SE29016L	106	SE29120L	108	SE29513	107
SE024057	157	SE29017	106	SE29121	107	SE29827	149
SE024060	157	SE29017L	106	SE29121L	108	SE29828	149
SE024068	157	SE29018	106	SE29122	107	SE30000	142
SE024071	157	SE29018L	106	SE29122L	108	SE30001	142
SE024079	157	SE29019	106	SE29123	107	SE30002	142
SE024082	157	SE29019L	106	SE29123L	108	SE30005	142
SE024090	157	SE29020	106	SE29124	107	SE30078	109
SE024093	157	SE29020L	106	SE29124L	108	SE30093	109
SE024101	157	SE29021	106	SE29125	107	SE30109	109
SE024104	157	SE29021L	106	SE29125L	108	SE30125	109
SE024112	157	SE29022	106	SE29133	107	SE30140	109
SE024115	157	SE29022L	106	SE29201	108	SE30156	109
SE024123	157	SE29023	106	SE29201F	109	SE30171	109
SE024126	157	SE29023L	106	SE29202	108	SE30187	109
SE024134	157	SE29024	106	SE29202F	109	SE30203	109
SE024137	157	SE29024L	106	SE29203	108	SE30218	109
SE024145	157	SE29025	106	SE29203F	109	SE30234	109
SE024148	157	SE29025L	106	SE29204	108	SE30250	109
SE024156	157	SE29026	106	SE29204F	109	SE30265	109
SE024159	157	SE29026L	106	SE29205	108	SE30281	109
SE024167	157	SE29027	106	SE29205F	109	SE30296	109
SE024170	157	SE29027L	106	SE29206	108	SE30312	109
SE024178	157	SE29028	106	SE29206F	109	SE30328	109
SE26115	111	SE29028L	106	SE29207	108	SE30343	109
SE26116	111	SE29029	106	SE29207F	109	SE30359	109
SE26117	111	SE29029L	106	SE29208	108	SE30375	109
SE26118	111	SE29030	106	SE29208F	109	SE31078	110
SE26119	111	SE29030L	106	SE29209	108	SE31093	110
SE26120	111	SE29031	106	SE29209F	109	SE31109	110
SE26121	111	SE29031L	106	SE29210	108	SE31125	110
SE26122	111	SE29032	106	SE29210F	109	SE31140	110
SE26123	111	SE29032L	106	SE29211	108	SE31156	110
SE26124	111	SE29101	107	SE29211F	109	SE31171	110
SE26126	111	SE29101L	108	SE29212	108	SE31187	110
SE26149	111	SE29102	107	SE29212F	109	SE31203	110
SE26155	111	SE29102-CAST	66	SE29213	108	SE31218	110
SE26157	111	SE29102-CAST-VPT	66	SE29213F	109	SE31234	110
SE26159	111	SE29102L	108	SE29214	108	SE31250	110
SE26160	111	SE29103	107	SE29214F	109	SE31265	110
SE26161	111	SE29103L	108	SE29215	108	SE31281	110
SE26162	111	SE29104	107	SE29215F	109	SE31296	110
SE26163	111	SE29104L	108	SE29216	108	SE31312	110
SE26165	111	SE29105	107	SE29216F	109	SE31328	110
SE29001	106	SE29105L	108	SE29217	108	SE31343	110
SE29002	106	SE29106	107	SE29217F	109	SE31359	110
SE29002L	106	SE29106L	108	SE29218	108	SE31374-60	142
SE29003	106	SE29107	107	SE29218F	109	SE31375	110
SE29003L	106	SE29107L	108	SE29219	108	SE32001HS	112
SE29004	106	SE29108	107	SE29219F	109	SE32003HS	112
SE29004L	106	SE29108L	108	SE29220	108	SE32004HS	112
SE29005	106	SE29109	107	SE29220F	109	SE32005HS	112
SE29005L	106	SE29109L	108	SE29221	108	SE32006HS	112
SE29006	106	SE29110	107	SE29221F	109	SE32007HS	112
SE29006L	106	SE29110L	108	SE29222	108	SE32008HS	112
SE29007	106	SE29111	107	SE29222F	109	SE32009HS	112
SE29007L	106	SE29111L	108	SE29223	108	SE32011HS	112
SE29008	106	SE29112	107	SE29223F	109	SE32012HS	112
SE29008L	106	SE29112L	108	SE29224	108	SE33108	145
SE29009	106	SE29113	107	SE29224F	109	SE33111	145
SE29009L	106	SE29113L	108	SE29225	108	SE33116	145
SE29010	106	SE29114	107	SE29225F	109	SE33120	145
SE29010L	106	SE29114L	108	SE29501	107	SE33125	145
SE29011	106	SE29115	107	SE29502	107	SE33125-L	145
SE29011L	106	SE29115L	108	SE29503	107	SE40050	142

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SE41060	146	SE50224	97	SE055493	155	SE70065RH	87
SE41080-3H	146	SE50225	97	SE055496	153	SE70067LH	87
SE41085	146	SE50226	97	SE055497	153	SE70067RH	87
SE41087	146	SE50227	97	SE055498	153	SE70071LH	87
SE043924	157	SE50228	97	SE055499	153	SE70071RH	87
SE043927	157	SE50300BP	97	SE055500	153	SE70075LH	87
SE043931	157	SE50301BPHS	97	SE055501	153	SE70075RH	87
SE043933	157	SE50302BPHS	97	SE055502	156	SE70082LH	87
SE043934	157	SE50303BPHS	97	SE055503	156	SE70082RH	87
SE043935	157	SE50305BPHS	97	SE055504	156	SE70085LH	87
SE043936	157	SE50701HS	98	SE055505	156	SE70085RH	87
SE043937	157	SE50702HS	98	SE055506	156	SE70104LH	87
SE043938	157	SE50703HS	98	SE055507	156	SE70104RH	87
SE043939	157	SE50704	98	SE055508	156	SE70165LH	87
SE043940	157	SE50705	98	SE055509	154	SE70165RH	87
SE043941	157	SE50706	98	SE055510	154	SE70187LH	87
SE043942	157	SE50801HS	98	SE055511	154	SE70187RH	87
SE043943	157	SE50802HS	98	SE055512	154	SE70250LH	87
SE043944	157	SE50803HS	98	SE055513	154	SE70250RH	87
SE043945	157	SE50804	98	SE055514	154	SE70375LH	87
SE043946	157	SE50805	98	SE055515	154	SE70375RH	87
SE043947	157	SE50806	98	SE055516	154	SE70438LH	87
SE043948	157	SE054752	153	SE055517	154	SE70438RH	87
SE043949	157	SE054753	156	SE055518	154	SE70500LH	87
SE043950	157	SE55001	114	SE055519	154	SE70500RH	87
SE043951	157	SE55002	114	SE055625	154	SE70562LH	87
SE043952	157	SE55003	114	SE56401	112	SE70562RH	87
SE043953	157	SE55004	114	SE56401HX	112	SE70625LH	87
SE043954	157	SE55005	114	SE56402	112	SE70625RH	87
SE043955	157	SE55006	114	SE56403	112	SE76401	112
SE043956	157	SE55007	114	SE56404	113	SE76401HX	112
SE043957	157	SE55008	114	SE57045LH	86	SE76402	112
SE043958	157	SE55009	114	SE57045RH	86	SE76403	112
SE043959	157	SE55010	114	SE57051LH	86	SE76404	113
SE043961	157	SE55011	114	SE57051RH	86	SE77250LH	87
SE043962	157	SE55012	114	SE57055LH	86	SE77250RH	87
SE043965	157	SE55013	114	SE57055RH	86	SE77375LH	87
SE043966	157	SE55014	114	SE57065LH	86	SE77375RH	87
SE043969	157	SE55015	114	SE57065RH	86	SE77438LH	87
SE043970	157	SE55016	114	SE57067LH	86	SE77438RH	87
SE045837	157	SE55017	114	SE57067RH	86	SE80200	99
SE045838	157	SE55018	114	SE57075LH	86	SE80201	99
SE045839	157	SE55019	114	SE57075RH	86	SE80202	99
SE46111	139	SE55020	114	SE57082LH	86	SE80204	99
SE46116	139	SE55021	114	SE57082RH	86	SE80205	99
SE46120	139	SE55022	114	SE57085LH	86	SE80206	99
SE46125	139	SE55023	114	SE57085RH	86	SE80207	99
SE46132	139	SE55024	114	SE57187LH	86	SE80208	99
SE46140	139	SE55025	114	SE57187RH	86	SE80209	99
SE50001	142	SE55026	114	SE57250LH	86	SE80210	98
SE50134	97	SE55027	114	SE57250RH	86	SE80211	98
SE50135	97	SE55028	114	SE57375LH	86	SE80212	98
SE50136HS	98	SE55029	114	SE57375RH	86	SE80212L	99
SE50137HS	98	SE55030	114	SE57438LH	86	SE80213	98
SE50138HS	98	SE55031	114	SE57438RH	86	SE80213L	99
SE50201	98	SE55032	114	SE57500LH	86	SE80214	98
SE50202	98	SE55033	114	SE57500RH	86	SE80214L	99
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SE50206	98	SE055462	152	SE57625RH	86	SE80218	98
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SE50209	98	SE055465	152	SE63505LH-F	88	SE90005*	100
SE50211	98	SE055466	152	SE63505RH	88	SE90007*	100
SE50212	98	SE055467	152	SE63505RH-F	88	SE90009*	100
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SE50219	98	SE055474	155	SE70051LH	87	SE90018***	100
SE50220	97	SE055475	155	SE70051RH	87	SE90019***	100
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SE50222	98	SE055490	155	SE70055RH	87	SE94624	115

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SE94648	115	SE100413	154	SE100862	154	SE114553	154
SE94652	115	SE100414	154	SE100863	154	SE114554	154
SE94656	115	SE100415	154	SE100864	154	SE114555	154
SE94660	115	SE100416	154	SE100865	154	SE114556	154
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SE100401	154	SE100848	154	SE114540	154	SE131250-516A	42
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SE100407	154	SE100855	154	SE114547	154	SE136404	113

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SE188002	99	SE295095	107	SEA250815	111	SEC-SCREW	81
SE191002	102	SE295105	107	SEA250875	111	SECSRB-1	79
SE191010	102	SE295115	107	SEA250915	111	SECSRB-2	79
SE191020	102	SE295125	107	SEA251015	111	SECSRB-34	79
SE191030	102	SE452500	144	SEA251075	111	SECSRB-112	79
SE191041	102	SE453200	144	SEA251115	111	SECSRB-114	79
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SE191060	102	SE502111	98	SEA251275	111	SECSRB-214	79
SE191080	102	SE502242	97	SEA251315	111	SECTDS38	35
SE191121	102	SE503001BP	97	SEA251375	111	SECTDS38	66
SE191122	102	SE503010**	97	SEA251415	111	SEDC32-12	147
SE191130	102	SE503025**	97	SEA251475	111	SEDC32-14	147
SE191154	102	SE635250LH	88	SEA251515	111	SEDC32-34	147
SE191158	102	SE635250LH-F	88	SEA251575	111	SEDC32-38	147
SE191159	102	SE635250RH	88	SEA251615	111	SEDC32-58	147
SE191160	102	SE635250RH-F	88	SEA251675	111	SEDC32-316	147
SE191161	102	SE802041	100	SEA251715	111	SEDC32-516	147
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SE192064	102	SE802061	100	SE-BBP	120	SEDL12-5	81
SE192084	102	SE971125N	79	SE-BCS	119	SEDL12-F*	81
SE192091	102	SE972524	75	SEBE2000	50	SEDOOR-53	81
SE201002	104	SE972531	79	SEBE2000A	50	SEDOOR-53M	81
SE201011	104	SE972837	79	SEBE2000C	50	SEDOOR-53T	81
SE201022	105	SE973443	79	SEBE2000D	50	SEDOOR-57F	81
SE201031	104	SE974050	79	SEBE2001	50	SEDOOR-57FT	81
SE201050	104	SE975362	79	SEBE2002	50	SEDOOR-60	81
SE201051	105	SE976279	79	SEBE2003	50	SEDOOR-60T	81
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SE201101	104	SE1911101	102	SEBE2004	50	SE-E25	77
SE201111	105	SE1911441	102	SEBE2005	50	SEH13125*	42
SE201121	104	SE1920301	102	SEBE2005A	50	SEH13140*	42
SE201122	105	SE1920713	102	SEBE2006	50	SEH13202*	42
SE201142	104	SE1920914	102	SEBE2007	50	SEH13234*	42
SE201152	104	SE2070912	104	SEBE2008	50	SEH13250*	42
SE201162	104	SE2646809	112	SEBE2008A	50	SEH13265*	42
SE201172	104	SE2646810	112	SEBE2009	50	SEH13281	42
SE201183	104	SE2646811	112	SEBE2009A	50	SEH13327	42
SE201192	104	SE2646812	112	SEBE2009B	50	SEH13375	42
SE201202	104	SE2646813	112	SEBE2010	50	SEH13406	42
SE201221	104	SE2646909	112	SEBE2011	50	SEH13469	42
SE203050HS	103	SE2646910	112	SEBE2012	50	SEH13484	42
SE203051HS	103	SE2646911	112	SEBE2013*	50	SEHB5715LH	90
SE203052HS	103	SE2646912	112	SEBE2014*	50	SEHB5715RH	90
SE203053HS	103	SE2646913	112	SEBE2015*	50	SEHB5716LH	90
SE203081HS	103	SE2646914	112	SEBE2016*	50	SEHB5716RH	90
SE203122HS	103	SE2646915	112	SE-BRP	120	SEHB5717LH	90
SE207098	104	SE2647009	112	SE-BRPT	121	SEHB5717RH	90
SE280003	16	SE2647010	112	SE-BRS	120	SEHB5718LH	90
SE280004	16	SE2647011	112	SECB-4KIT	148	SEHB5718RH	90
SE280009	16	SE2647012	112	SECB-7KIT	148	SEHB5719LH	90
SE280009A	16	SE2647013	112	SECB250	148	SEHB5719RH	90
SE280010	16	SE2647014	112	SECB312	148	SEHB5720LH	90
SE280011	16	SE2647015	112	SECB375	148	SEHB5720RH	90
SE280012	16	SE2647016	112	SECB500	148	SEHB5722LH	90
SE280014	16	SE2647017	112	SECB625	148	SEHB5722RH	90
SE280018	16	SE4403502	145	SECB750	148	SEHB5724LH	90
SE280020	16	SE8505002	142	SECB1000	148	SEHB5724RH	90
SE280024	16	SE8605002	142	SEC-POINT	81	SEHB5725LH	90
SE293005	16	SE8605003	142	SECR500LH	80	SEHB5725RH	90
SE293205	16	SE8905001	142	SECR500RH	80	SEHB5726LH	90
SE293504	16	SE8905002	142	SECR625LH	80	SEHB5726RH	90
SE293505	16	SE8905003	142	SECR625LH-11	80	SEHB5728LH	90
SE293507	16	SEA250175	111	SECR625RH	80	SEHB5728RH	90
SE293508	16	SEA250275	111	SECR625RH-11	80	SEHB5730LH	90
SE295005	107	SEA250315	111	SECR750LH	80	SEHB5730RH	90
SE295015	107	SEA250375	111	SECR750LH-11	80	SEHB5732LH	90
SE295026	107	SEA250415	111	SECR750LH-12	80	SEHB5732RH	90
SE295036	107	SEA250475	111	SECR750RH	80	SEHB5734LH	90
SE295045	107	SEA250515	111	SECR750RH-11	80	SEHB5734RH	90
SE295055	107	SEA250575	111	SECR750RH-12	80	SEHB5735LH	90

SEHB5735RH	90	SEHN-29mm-.187	139	SEIT750-30	38	SENTS-BD-15	147
SEHB5736LH	90	SEHN-29mm-.500	139	SEIT750-30*	116	SENTS-BT30-38	147
SEHB5736RH	90	SEHN-29mm-.750	139	SEIT750-40	38	SENTS-BT30-41	147
SEHB5738LH	90	SEHN-Piggyback-12	139	SEIT750-40*	116	SENTS-BT30-SLOT	147
SEHB5738RH	90	SEHN-Piggyback-14	139	SEIT750-50	38	SENTS-HSK63A	147
SEHB5740LH	90	SEHN-Piggyback-38	139	SEIT750-50*	116	SENTS-HSK63F-36	147
SEHB5740RH	90	SEHN-Piggyback-58	139	SEIT1125-30	38	SENTS-HSK63F-38	147
SEHB7015LH	90	SEHSSRB-1	80	SEIT1125-30**	116	SENTS-HSK63F-41	147
SEHB7015RH	90	SEHSSRB-2	80	SEIT1125-40	38	SENTS-HSK63F-46	147
SEHB7016LH	90	SEHSSRB-3	80	SEIT1125-40**	116	SENTS-ISO30-36	147
SEHB7016RH	90	SEHSSRB-34	80	SEIT1125-50	38	SENTS-ISO30-38	147
SEHB7017LH	90	SEHSSRB-112	80	SEIT1125-50**	116	SENTS-ISO30-47	147
SEHB7017RH	90	SEHSSRB-114	80	SEIV90-12	116	SEPD125LH	81
SEHB7018LH	90	SEHSSRB-134	80	SEIV91-12	116	SEPD125RH	81
SEHB7018RH	90	SEHSSRB-212	80	SEJS13M	107	SEPD187LH	81
SEHB7019LH	90	SEHSSRB-214	80	SEJS15M	107	SEPD187RH	81
SEHB7019RH	90	SEHSSRB-234	80	SEJS21M	107	SEPD250LH	81
SEHB7020LH	90	SEIBCS	118	SEJS25MET	107	SEPD250RH	81
SEHB7020RH	90	SEIBCSFD	118	SEJS29M	107	SEPD375LH	81
SEHB7022LH	90	SE-IBP	120	SEJS49MET	107	SEPD375RH	81
SEHB7022RH	90	SE-IBP-Round	120	SELC-12	77	SEPE30DF2056	141
SEHB7024LH	90	SEIBRP-34	119	SELC-14	77	SEPE30DM20	141
SEHB7024RH	90	SEIBSS	118	SELC-18	77	SEPSS-30BT	149
SEHB7025LH	90	SEIBSSFD	118	SELC-SCREW	77	SEPSS-30ISO	149
SEHB7025RH	90	SEIBT22-12	117	SEM2-1250-14	131	SEPSS-40	149
SEHB7026LH	90	SEIBT22-14	117	SEM2-1250-516	130	SEPSS-50	149
SEHB7026RH	90	SEIBT45-12	117	SEM2-1500-14	131	SEPSSC-50	149
SEHB7028LH	90	SEIBT45-14	117	SEM2-1500-516	130	SERC500LH	81
SEHB7028RH	90	SE-ICSB	119	SEM2-1750-14	131	SERC500RH	81
SEHB7030LH	90	SE-ICSB	119	SEM2-1750-516	130	SERC750LH	81
SEHB7030RH	90	SE-ICSBFD	118	SEM2-2000-14	131	SERC750RH	81
SEHB7032LH	90	SE-ICSO	119	SEM2-2000-516	130	SERTP110	149
SEHB7032RH	90	SE-ICSO	119	SEM2-2250-14	131	SERTP120	149
SEHB7034LH	90	SE-ICSOFD	118	SEM2-2250-516	130	SERTP130	149
SEHB7034RH	90	SE-ICSR	119	SEM2-2500-14	131	SERTP140	149
SEHB7035LH	90	SE-ICSR	119	SEM2-2500-516	130	SERTP150	149
SEHB7035RH	90	SE-ICSRFD	118	SEM2-2750-516	130	SERTP310	149
SEHB7036LH	90	SEID218	81	SEM2-3000-516	130	SERTP320	149
SEHB7036RH	90	SEIFT-71212*	116	SEM2C-14-1250	131	SERTP330	149
SEHB7038LH	90	SEIFT-71214*	116	SEM2C-14-1500	131	SERTP340	149
SEHB7038RH	90	SEIFT-73012**	116	SEM2C-14-1750	131	SERTP350	149
SEHB7040LH	90	SEIFT-74012**	116	SEM2C-14-2000	131	SESC-1	113
SEHB7040RH	90	SEIFT-75012**	116	SEM2C-14-2250	131	SESC-4Set	113
SEHB70165LH	90	SEIMHB-1250	41	SEM2C-14-2500	131	SESC-7Set	113
SEHB70165RH	90	SEINS-1-30	116	SEM2C-516-1250	131	SESC-12	113
SEHK-116	77	SEINS22-40	117	SEM2C-516-1500	131	SESC-14	113
SEHK-116	78	SEINS22-50	117	SEM2C-516-1750	131	SESC-18	113
SEHK-332	78	SEINS-34	116	SEM2C-516-2000	131	SESC-34	113
SEHK-532	78	SEINS-34-12	116	SEM2C-516-2250	131	SESC-38	113
SEHK-564	78	SEINS-34-40	116	SEM2C-516-2500	131	SESC-58	113
SEHMA-12	41	SEINS-34-50	116	SEM2C-516-2750	131	SESC-78	113
SEHMA-12-516	41	SEINS-34-58	116	SEM2C-516-3000	131	SESC-316	113
SEHMA-12-XL	41	SE-IRPC	119	SEM5-SCREW	81	SESC-516	113
SEHMA-12-XXL	41	SE-IRPC	120	SEM35-SCREW	81	SESC-716	113
SEHMA-14	41	SE-IRPO	119	SEMH422ST	132	SESC-916	113
SEHMA-14-516	41	SE-IRPO	120	SEMH424ST	132	SESD-20mm-10mm	135
SEHMA-38-XL	41	SE-IRPS	119	SEMH426ST	132	SESD-20mm-.250	135
SEHMC250	80	SE-IRPS	120	SEMH442ST	132	SESD-20mm-.312	135
SEHMC250-DRILL	80	SE-IRPT	121	SEMH444ST	132	SESD-20mm-.375	135
SEHMC375	80	SE-IRSB	119	SEMH446ST	132	SESD-20mm-.500	135
SEHMC375-DRILL	80	SE-IRSB	120	SEMH542ST	132	SESD-20mm-.625	135
SEHMC500	80	SE-IRSBFD	118	SEMH544ST	132	SESD-20mm-Nut	135
SEHMC500-DRILL	80	SE-IRSO	119	SEMH546ST	132	SESD-20mm-Nut	136
SEHMC625	80	SE-IRSO	120	SEMH549ST	132	SESD-20mm-TWA	148
SEHMC625-DRILL	80	SE-IRSOFD	118	SEMH642ST	132	SESD516	110
SEHMC750*	80	SE-IRSR	119	SEMH644ST	132	SESD531	110
SEHMC750-DRILL	80	SE-IRSR	120	SEMH646ST	132	SESD547	110
SEHN-24mm-10	139	SE-IRSRFD	118	SEMH649ST	132	SESD563	110
SEHN-24mm-20	139	SEIS1-73012	116	SEMH662ST	132	SESD578	110
SEHN-24mm-.187	139	SEIS1-74012	116	SEMH664ST	132	SESD594	110
SEHN-24mm-.375	139	SEIS2-740	116	SEMH666ST	132	SESD609	110
SEHN-24mm-.500	139	SEIS2-750	116	SEMH669ST	132	SESD625	110
SEHN-24mm-.625	139	SEI-Screw	130	SENT-54300130	141	SESD641	110
SEHN-24mm-.750	139	SEISO-30-THERM	141	SENT-54300130-L	141	SESD656	110

SESD672	110	SESS-22-Nut	136	SEV7005LH	89	SEV70142LH	89
SESD688	110	SESS22TWA	148	SEV7005RH	89	SEV70142RH	89
SESD703	110	SE-T8	130	SEV7006LH	89	SEV70187LH	89
SESD719	110	SETA-150	65	SEV7006RH	89	SEV70187RH	89
SESD734	110	SETA-151	65	SEV7007LH	89	SEV70250LH	89
SESD750	110	SETA-152	65	SEV7007RH	89	SEV70250RH	89
SESD766	110	SETA-156	65	SEV7008LH	89	SEV70375LH	89
SESD781	110	SETA-157	65	SEV7008RH	89	SEV70375RH	89
SESD797	110	SETA-160	65	SEV7009LH	89	SEV70500LH	89
SESD813	110	SETA-161	65	SEV7009RH	89	SEV70500RH	89
SESD828	110	SETA-162	65	SEV7010LH	89	SEV77438LH	89
SESD844	110	SETA-170	65	SEV7010RH	89	SEV77438RH	89
SESD859	110	SETA-176	65	SEV7011LH	89	SEWH-14-2000	131
SESD875	110	SETA-228	65	SEV7011RH	89	SEWH-14-2000C	131
SESD891	110	SETA-228K	65	SEV7012LH	89	SEWH-14-2250	131
SESD906	110	SETA-Nut	65	SEV7012RH	89	SEWH-14-2250C	131
SESD922	110	SETSM1005LH	92	SEV7013LH	89	SEWH-14-2500	131
SESD938	110	SETSM1005RH	92	SEV7013RH	89	SEWH-14-2500C	131
SESD953	110	SETSM1006LH	92	SEV7014LH	89	SEWH-316-2000	131
SESD969	110	SETSM1006RH	92	SEV7014RH	89	SEWH-316-2000C	131
SESD984	110	SETSM1008LH	92	SEV7015LH	89	SFFB700	86
SESD1000	110	SETSM1008RH	92	SEV7015RH	89	SFFB710	86
SESD-C001-10mm	135	SETSM1010LH	92	SEV7016LH	89	SFFB720	86
SESD-C001-.125	135	SETSM1010RH	92	SEV7016RH	89	SFFB800	86
SESD-C001-.187	135	SETSM1012LH	92	SEV7017LH	89	SFFB900	86
SESD-C001-.250	135	SETSM1012RH	92	SEV7017RH	89	SFFB1000	86
SESD-C001-.312	135	SETSM1015LH	92	SEV7018LH	89	SFTD220	14
SESD-C001-.375	135	SETSM1015RH	92	SEV7018RH	89	SFTD255	14
SESD-C001-.500	135	SETSM8005LH	92	SEV7019LH	89	SFTD265	14
SESD-C001-Nut	135	SETSM8005RH	92	SEV7019RH	89	SFTU120	14
SESD-C001-Nut	136	SETSM8006LH	92	SEV7704LH	89	SFTU155	14
SESD-C001-TWA	148	SETSM8006RH	92	SEV7704RH	89	SFTU165	14
SESD-C015-10mm	135	SETSM8008LH	92	SEV7705LH	89	SFTUD555	14
SESD-C015-.125	135	SETSM8008RH	92	SEV7705RH	89	SFTUD780	14
SESD-C015-.250	135	SETSM8010LH	92	SEV7706LH	89	SHDUD539	31
SESD-C015-.312	135	SETSM8010RH	92	SEV7706RH	89	SHDUD545	31
SESD-C015-.375	135	SETSM8012LH	92	SEV7707LH	89	SHDUD550	31
SESD-C015-.500	135	SETSM8012RH	92	SEV7707RH	89	SHDUD551	31
SESD-C015-.625	135	SETSM8015LH	92	SEV7708LH	89	SHDUD555	31
SESD-C015-.750	135	SETSM8015RH	92	SEV7708RH	89	SHDUD558	31
SESD-C015-Nut	135	SEV5803LH	88	SEV7710LH	89	SHDUD565	31
SESD-C015-Nut	136	SEV5803RH	88	SEV7710RH	89	SHDUD566	31
SESD-C015-TWA	148	SEV5804LH	88	SEV7712LH	89	SHDUD575	31
SESK-012	60	SEV5804RH	88	SEV7712RH	89	SHDUD750	33
SESK-012	64	SEV5805LH	88	SEV58055LH	88	SHDUD751	33
SESK-012	75	SEV5805RH	88	SEV58055RH	88	SHDUD754	33
SESK-012	78	SEV5806LH	88	SEV58065LH	88	SHDUD758	33
SESP-44-416	129	SEV5806RH	88	SEV58065RH	88	SHDUD766	33
SESP-44-624	129	SEV5807LH	88	SEV58079LH	88	SI4-Screw	130
SESP-45-420	129	SEV5807RH	88	SEV58079RH	88	SI35-Screw	130
SESP-45-630	129	SEV5808LH	88	SEV58111LH	88	SI-1580 Wrench	130
SESP-46-424	129	SEV5808RH	88	SEV58111RH	88	SI-25100Wrench	130
SESP-46-636	129	SEV5809LH	88	SEV58187LH	88	SI-117815	125
SESPM-54-416	129	SEV5809RH	88	SEV58187RH	88	SI-121215	122
SESPM-54-624	129	SEV5810LH	88	SEV58250LH	88	SI-121215	130
SESPM-56-420	129	SEV5810RH	88	SEV58250RH	88	SI-125511BG	124
SESPM-56-630	129	SEV5811LH	88	SEV58375LH	88	SI-125511FG	125
SESPM-59-448	129	SEV5811RH	88	SEV58375RH	88	SI-131215	122
SESPM-59-660	129	SEV5812LH	88	SEV58500LH	88	SI-131325	122
SESPM-64-416	129	SEV5812RH	88	SEV58500RH	88	SI-141412	122
SESPM-64-624	129	SEV5813LH	88	SEV70055LH	89	SI-141412 Holz	122
SESPM-66-420	129	SEV5813RH	88	SEV70055RH	89	SI-141420	81
SESPM-66-630	129	SEV5814LH	88	SEV70065LH	89	SI-141420	122
SESPM-69-448	129	SEV5814RH	88	SEV70065RH	89	SI-141420CR	122
SESPM-69-660	129	SEV5815LH	88	SEV70071LH	89	SI-141420-SP	122
SESS-22-10mm	136	SEV5815RH	88	SEV70071RH	89	SI-141420-T10	122
SESS-22-12	136	SEV5816LH	88	SEV70082LH	89	SI-151215	122
SESS-22-14	136	SEV5816RH	88	SEV70082RH	89	SI-151520CB	125
SESS-22-38	136	SEV5818LH	88	SEV70102LH	89	SI-151525	122
SESS-22-58	136	SEV5818RH	88	SEV70102RH	89	SI-151525	130
SESS-22-ext-nut	136	SEV7003LH	89	SEV70104LH	89	SI-151525- 30deg	122
SESS-22-ext-nut	136	SEV7003RH	89	SEV70104RH	89	SI-151525 Byrd	122
SESS22EXTTWA	148	SEV7004LH	89	SEV70111LH	89	SI-151525-R50	122
SESS-22-Nut	136	SEV7004RH	89	SEV70111RH	89	SI-151525-SQ	122

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SI-152370-224	128	SI-751215	122	SIPP-825511	127	SL062-4	73
SI-152373-223	128	SI-801322	123	SIPP-925511	127	SL062-4A2	73
SI-152380-210	128	SI-861215	122	SIPP-1025511	127	SL062-4A5	73
SI-152390-220	128	SI-901215	122	SIPP-7555511	127	SL070-3	72
SI-152390-221	128	SI-961215	122	SIPP-7575512	127	SL070-3A2	72
SI-152390-225	128	SI-978152	125	SIPP-8055511	127	SL070-3A5	72
SI-171215	122	SI-1001322	123	SIPP-8055912	127	SL070-4	73
SI-181215	122	SI-1201322	123	SIPP-8275511	127	SL070-4A2	73
SI-191920	122	SI-1361362	122	SIR-14223-3LH*	129	SL070-4A5	73
SI-197815	125	SI-1478152	125	SIR-14223-3RH*	129	SL078-2	71
SI-201215	122	SI-1525773-240	128	SIR-121452L-2	125	SL078-2A2	71
SI-201215AL	124	SI-1525773-241	128	SIR-121452L-3	125	SL078-2A5	71
SI-201215AR	124	SI-1717203	122	SIR-121452L-25	125	SL078-3	72
SI-201215CB	125	SI-1717204	122	SIR-121452R-2	125	SL078-3A2	72
SI-205511BCG	125	SI-1951015	122	SIR-121452R-3	125	SL078-3A5	72
SI-205511BG	124	SI-1951115	122	SIR-121452R-25	125	SL080-3	72
SI-205511FG	125	SI-1951215	122	SIR-121802-2LH	129	SL080-3A2	72
SI-205511FG4	125	SI-1957015	122	SIR-121802-2LH-MFA	129	SL080-3A5	72
SI-212155	122	SI-1957515	122	SIR-121802-2RH	129	SL080-4	73
SI-251215	122	SI-1958015	122	SIR-121802-2RH-MFA	129	SL080-4A2	73
SI-251215-2	81	SI-1959015	122	SIR-121802-3LH	129	SL080-4A5	73
SI-251215-2	123	SI-2951015	123	SIR-121802-3LH-MFA	129	SL093-2	71
SI-255511FG4	125	SI-2951115	123	SIR-121802-3RH	129	SL093-2A2	71
SI-258015	122	SI-2951215	130	SIR-121802-3RH-MFA	129	SL093-2A5	71
SI-287015	123	SI-2951215SP	123	SIR-151452L-2	126	SL093-3	72
SI-301215	123	SI-2957015	123	SIR-151452L-3	126	SL093-3A2	72
SI-301215	130	SI-2957515	123	SIR-151452L-25	126	SL093-3A5	72
SI-301215-16	123	SI-2958015	123	SIR-151452R-2	126	SL093-4	73
SI-301215AL	124	SI-2959015	123	SIR-151452R-3	126	SL093-4A2	73
SI-301215AR	124	SI-2959015SP	123	SIR-151452R-25	126	SL093-4A5	73
SI-301215CA	123	SI-3951215	123	SIR-1961522L-2	126	SL100-3	72
SI-301215CB	125	SI-3951215	130	SIR-1961522R-2	126	SL100-3A2	72
SI-301215DCL	124	SI-3951215V	128	SIR-19615223L-3	126	SL100-3A5	72
SI-301215DCR	124	SI-4451515	123	SIR-19615223R-3	126	SL106-3	72
SI-301215P	123	SI-4951015	123	SIRP-12712732-2	126	SL106-3A2	72
SI-301215SP	123	SI-4951115	123	SIRP-12712732-3	126	SL106-3A5	72
SI-301215-TL15	123	SI-4951215	123	SIS-2012202	127	SL110-3	72
SI-301225	123	SI-4951215	130	SIS-2012203	127	SL110-3A2	72
SI-301402LH	128	SI-4951215-SP	123	SIS-2012204	127	SL110-3A5	72
SI-301402RH	128	SI-4958015	123	SIS-2012205	127	SL115-3	72
SI-305511BCG	125	SI-4959015	123	SI-Screw10-32x6	130	SL115-3A2	72
SI-305511BG	124	SI-4959015-SP	123	SI-Screw10-32x9	130	SL115-3A5	72
SI-305511BG- SP	124	SI-5951215	123	SISG-141420-2	127	SL125-2	71
SI-305511FG	125	SI-10510515	122	SISG-142820	127	SL125-2	75
SI-305511FG4	125	SI-10510515CS	122	SISG-161630	127	SL125-2A2	71
SI-351215	123	SI-14314325	122	SISG-341640	128	SL125-2A5	71
SI-355511FG4	125	SI-14614625	122	SISG-341650	128	SL125-3	72
SI-401215	123	SI-14614625CR	122	SISG-341660	128	SL125-3A2	72
SI-401215	130	SICS-Screw	130	SISG-341670	128	SL125-3A5	72
SI-401215AL	124	SICS-Screw	130	SISG-1818195	127	SL125-4	73
SI-401215AR	124	SIDR-161752-2	126	SISG-1818245	127	SL125-4A2	73
SI-401215CA	123	SIDR-161752-3	126	SISG-1818295	127	SL125-4A5	73
SI-405511BCG	125	SIDR-161752-4	126	SISG-1818370	127	SL140-3	72
SI-405511BG	124	SIDR-161752-5	126	SISP-185735	128	SL140-3A2	72
SI-405511FG	125	SIGSH-Screw	130	SIS-Screw	130	SL140-3A5	72
SI-405511FG4	125	SILS-308015	126	SITS-221920	127	SL157-2	71
SI-501017	124	SILS-358015	126	SI-Wrench	130	SL157-2	75
SI-501215	123	SILS-408015	126	SJM187-4	74	SL157-2A2	71
SI-501215	130	SILS-458015	126	SJM187-6	74	SL157-2A5	71
SI-501215AL	124	SILS-508015	126	SJM250-4	74	SL157-3	72
SI-501215AR	124	SILS-608015	126	SJM250-6	74	SL157-3A2	72
SI-501215CA	123	SILS-708015	126	SJM281-6	74	SL157-3A5	72
SI-501215CB	125	SILS-778015	126	SL050-3	72	SL157-4	73
SI-501215DCL	124	SILS-808015	126	SL050-3A2	72	SL157-4A2	73
SI-501215DCR	124	SILS-978015	126	SL050-3A5	72	SL157-4A5	73
SI-501217	124	SILS-1008015	126	SL055-3	72	SL187-2	71
SI-505511BCG	125	SILS-1178015	126	SL055-3A2	72	SL187-2	75
SI-505511BG	124	SILS-1208015	126	SL055-3A5	72	SL187-2A2	71
SI-505511BG-T03	124	SILS-1478018	126	SL062-2	71	SL187-2A5	71
SI-505511FG	125	SILS-1978015	126	SL062-2A2	71	SL187-3	72
SI-505511FG4	125	SILS-2478015	126	SL062-2A5	71	SL187-3A2	72
SI-508015FG	125	SIPP-565511	127	SL062-3	72	SL187-3A5	72
SI-601215	123	SIPP-605511	127	SL062-3A2	72	SL187-4	73

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SL187-4A5	73	SLUD655	32	SMSHS290	83	SOD635	20
SL218-3	72	SLUD665	32	SMSHS295	83	SOD645	20
SL218-3A2	72	SLUD673	32	SMSHS298	83	SOD823	21
SL218-3A5	72	SLUD680	32	SMSHS300	83	SOU100	18
SL250-2	71	SLUD685	32	SMSHS303	83	SOU110	18
SL250-2	75	SLUD690	32	SMSHS305	83	SOU120	18
SL250-2A2	71	SLUD696	32	SMSHS310	83	SOU123	18
SL250-2A5	71	SMDUD445	31	SMSHS315	83	SOU135	18
SL250-3	72	SMDUD539	31	SMSHS321	83	SOU136	18
SL250-3A2	72	SMDUD540	31	SMSHS325	83	SOU160	18
SL250-3A5	72	SMDUD550	31	SMSHS330	83	SOU300	19
SL250-4	73	SMDUD551	31	SMSHS335	83	SOU300A	19
SL250-4A2	73	SMDUD551-1	31	SMSHS340	83	SOU300B	19
SL250-4A5	73	SMDUD554	31	SMSHS345	83	SOU302	19
SL281-3	72	SMDUD554A	31	SMSHS350	83	SOU303	19
SL281-3A2	72	SMDUD555	31	SMSHS355	83	SOU311	19
SL281-3A5	72	SMDUD557	31	SMSHS360	83	SOU313	19
SL281-4	73	SMDUD558	31	SMSHS365	83	SOU315	19
SL281-4A2	73	SMDUD560	31	SMSHS370	83	SOU320	19
SL281-4A5	73	SMDUD563	31	SMSHS375	83	SOU323	19
SLASCA	75	SMDUD565	31	SMSHS380	83	SOU323B	19
SLAT670	85	SMDUD566	31	SMSHS385	83	SOU326	19
SLAT680	85	SMDUD567	31	SMSHS390	83	SOU332	19
SLAT690	85	SMDUD569	31	SMSHS395	83	SOU335	19
SLAT720	85	SMDUD571	31	SMSHS400	83	SOU338	19
SLAT730	85	SMDUD573	31	SMSHS411	83	SOU345	19
SLAT740	85	SMDUD575	31	SMSHS413	83	SOU490	20
SLAT770	85	SMDUD750	33	SMSHS414	83	SOU500	20
SLAT780	85	SMDUD751*	33	SMSHS415	83	SOU500A	20
SLAT790	85	SMDUD751A	33	SMSHS420	83	SOU500B	20
SLAT800	85	SMDUD755	33	SMSHS425	83	SOU502	20
SLAT810	85	SMDUD756*	33	SMSHS430	83	SOU503	20
SLAT820	85	SMDUD790*	33	SMSHS435	83	SOU511	20
SLD400	25	SMDUD795	33	SMSHS440	83	SOU513	20
SLD410	25	SMS300	82	SMSHS440-34*	83	SOU520	20
SLD415	25	SMS305	82	SMSHS445	83	SOU523	20
SLD420	25	SMS310	82	SMSHS445-34*	83	SOU524	20
SLD425	25	SMS315	82	SMSHS450	83	SOU526	20
SLD430	25	SMS321	82	SMSHS450-34*	83	SOU527	20
SLD435	25	SMS325	82	SMSHS455	83	SOU532	20
SLD440	25	SMS330	82	SMSHS455-34*	83	SOU535	20
SLD445	25	SMS335	82	SMSHS460	83	SOU538	20
SLD450	25	SMS340	82	SMSHS460-34*	83	SOU545	20
SLD455	25	SMS345	82	SN305	12	SOU720	20
SLD460	25	SMS350	82	SN310	12	SOU723	21
SLD465	25	SMS355	82	SN320	12	SOU724	20
SLD470	25	SMS360	82	SN330	12	SOU734	20
SLIN010	12	SMS365	82	SN340	12	SOU742	20
SLIN062	12	SMS370	82	SN360	12	SOU745	20
SLIN085	12	SMS375	82	SN390	12	SOU748	20
SLOC600	85	SMS380	82	SN605	12	SOU920	21
SLOC605	85	SMS385	82	SN610	12	SOU926	21
SLOC610	85	SMS390	82	SN620	12	SOU934	21
SLU300	25	SMS395	82	SN630	12	SOU937	21
SLU310	25	SMS400	82	SN640	12	SOU943	21
SLU315	25	SMS411	82	SN660	12	SOU948	21
SLU320	25	SMS413	82	SN690	12	SPL100	17
SLU325	25	SMS414	82	SOD200	18	SPL100LH	17
SLU330	25	SMS415	82	SOD210	18	SPL102	17
SLU335	25	SMS420	82	SOD220	18	SPL103	17
SLU340	25	SMS425	82	SOD223	18	SPL105	17
SLU345	25	SMS430	82	SOD235	18	SPL105LH	17
SLU350	25	SMS435	82	SOD236	18	SPL110	17
SLU355	25	SMS440	82	SOD260	18	SPL110LH	17
SLU360	25	SMS440-34*	82	SOD402	19	SPL111	17
SLU365	25	SMS445	82	SOD413	19	SPL113	17
SLU370	25	SMS445-34*	82	SOD423	19	SPL115	17
SLUD598	29	SMS450	82	SOD426	19	SPL120	17
SLUD600	29	SMS450-34*	82	SOD435	19	SPL120LH	17
SLUD605	29	SMS455	82	SOD445	19	SPL125	17
SLUD610	29	SMS455-34*	82	SOD602	20	SPL128	17
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SPL148	17	SRD237HD	24	SRD626SLRUF	29	SRU191	23
SPL210	17	SRD237MD	24	SRD627SLRUF	29	SRU192	23
SPL212	17	SRD240	22	SRD637SLRUF	29	SRU193	23
SPL213	17	SRD245	22	SRD645SLRUF	29	SRU193CB	26
SPL215	17	SRD247	22	SRD702SL	27	SRU195	23
SPL216	17	SRD250	22	SRD713SL	27	SRU197	23
SPL217	17	SRD250A	22	SRD724SL	27	SRU320RUF	66
SPL220	17	SRD252	22	SRD725SL	27	SRU320RUF*	28
SPL222	17	SRD252HD	24	SRD726SL	27	SRU340RUF	28
SPL223	17	SRD253	22	SRD728SL	27	SRU346RUF	28
SPL225	17	SRD255	22	SRD729SL	27	SRU350RUF	28
SPL227	17	SRD255CB	25	SRD745SL	27	SRU360RUF	28
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SPOIL4-3	117	SRD260CB	25	SRD846FIN	33	SRU390RUF	28
SPOIL4-3UP	118	SRD260HD	24	SRU090	23	SRU392RUF	28
SPOIL25-2	117	SRD260MD	24	SRU092	23	SRU393RUF	28
SPOIL25-2UP	118	SRD263	22	SRU102	23	SRU395RUF	28
SPOIL178-2	117	SRD265	22	SRU103	23	SRU397RUF	28
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SPOIL-Screw	118	SRD265MD	24	SRU105	23	SRU440T	26
SPOIL-Wrench	118	SRD267	22	SRU110	23	SRU440TCB	28
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SPOU110	19	SRD268	22	SRU114MD	24	SRU455TCB	28
SPOU120	19	SRD269	22	SRU115	23	SRU460T	26
SPR200	18	SRD270	22	SRU118	23	SRU460TCB	28
SPR210	18	SRD275	22	SRU119	23	SRU465T	26
SPR220	18	SRD280	22	SRU120	23	SRU465TCB	28
SPR300	18	SRD280CB	25	SRU120MD	24	SRU480T	26
SPR310	18	SRD285	22	SRU121	23	SRU480TCB	28
SPR320	18	SRD290	22	SRU123	23	SRU485T	26
SPR400	18	SRD290CB	25	SRU124	23	SRU485TCB	28
SPR410	18	SRD291	22	SRU125	23	SRU490T	26
SPR420	18	SRD292	22	SRU130	23	SRU490TCB	28
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SPS3-16-095	75	SRD293CB	25	SRU135	23	SRU495TCB	28
SPS25-16-095	75	SRD295	22	SRU135HD	24	SRU497T	26
SPS35-16-095	75	SRD297	22	SRU135MD	24	SRU513SLRUF	29
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SPSARBOR-12-412	75	SRD440RUF	28	SRU137CB	26	SRU527SLRUF	29
SPSARBOR-58	75	SRD446RUF	28	SRU137HD	24	SRU528SLRUF	29
SRD202	22	SRD450RUF	28	SRU137MD	24	SRU534SLRUF	29
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SRD218MD	24	SRD555T	26	SRU160CB	26	SRU645SL	27
SRD220	22	SRD555TCB	27	SRU160HD	24	SRU648SL	27
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SRD223B	22	SRD565TCB	27	SRU165CB	26	SRU746FIN	33
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SRD224B	22	SRD585T	26	SRU167CB	26	SST120	12
SRD225	22	SRD585TCB	27	SRU168	23	SST130	12
SRD227	22	SRD590T	26	SRU169	23	SST195	12
SRD230	22	SRD590TCB	27	SRU170	23	SST195	13
SRD233	22	SRD595T	26	SRU175	23	SST198	12
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SST213	13	STOP070	74	SUD594	30	WD 7375	166
SST214	13	STOP080	74	SUD594CB	32	WDC 7100	160
SST215	13	STOP085	74	SUD597	30	WDC 7105	160
SST220	13	STOP090	74	SUD750	32	WDC 7110	160
SST223	13	STOP093	74	SUD751*	32	WDC 7115	160
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SST235	13	STOP100	74	SUD756*	32	WDC 7130	160
SST240	13	STOP105	74	SUD765	32	WDC 7135	160
SST241	13	STOP110	74	SUD790	32	WDC 7140	160
SST245	13	STOP115	74	SUD840*	34	WDC 7150	160
SST250	13	STOP115-3	74	SUD842	34	WDC 7155	160
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SST275	13	STOP150	74	SUD888	34	WDC 7180	160
SST280	13	STOP160	74	SUD950FIN	34	WDC 7185	160
STB310	159	STOP170	74	SUD955FIN	34	WDC 7190	160
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STB316	159	SUD448	30	SUD970FIN	34	WDC 7210	160
STB320	159	SUD448CB*	32	SUD980FIN	34	WDC 7215	160
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STB410	159	SUD510	29	WA 7130	165	WDCL 7185	165
STB412	159	SUD512	29	WA 7150	165	WDCL 7200	165
STB416	159	SUD515	29	WA 7160	165	WDCL 7215	165
STB420	159	SUD531	29	WA 7180	165	WDCL 7250	165
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STB428	159	SUD550CB	32	WA 7215	165	WDCR 7185	165
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STB510	159	SUD553A	30	WB 7165	166	WE 7150	167
STB512	159	SUD553ACB*	32	WB 7180	166	WE 7165	167
STB516	159	SUD553CB*	32	WB 7195	166	WE 7185	167
STB520	159	SUD554	30	WB 7215	166	WE 7200	167
STB524	159	SUD554CB	32	WBC 7085	160	WE 7215	167
STB528	159	SUD555	30	WBC 7100	160	WE 7225	167
STB532	159	SUD555CB	32	WBC 7120	160	WE 7235	167
STB536	159	SUD557	30	WBC 7135	160	WE 7250	167
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STB610	159	SUD560CB	32	WBC 7195	160	WE 7350	167
STB612	159	SUD563	30	WC 7100	166	WE 7375	167
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WFC 7130	162	WGC 7090	163	WQ 7460	168		
WFC 7135	162	WGC 7100	163	WQ 7500	168		
WFC 7140	162	WGC 7105	163	WQC 7230	164		
WFC 7145	162	WGC 7110	163	WQC 7250	164		
WFC 7150	162	WGC 7115	163	WQC 7300	164		
WFC 7155	162	WGC 7120	163	WQC 7400	164		
WFC 7160	162	WGC 7125	163	WQC 7530	164		
WFC 7165	162	WGC 7130	163	WQC 7625	164		
WFC 7170	162	WGC 7135	163	WXC 7095	164		
WFC 7175	162	WGC 7140	163	WXC 7100	164		
WFC 7180	162	WGC 7145	163	WXC 7105	164		
WFC 7185	162	WGC 7150	163	WXC 7110	164		
WFC 7190	162	WGC 7155	163	WXC 7115	164		
WFC 7195	162	WGC 7160	163	WXC 7120	164		
WFC 7200	162	WGC 7165	163	WXC 7125	164		
WFC 7205	162	WGC 7170	163	WXC 7130	164		
WFC 7210	162	WGC 7175	163	WXC 7135	164		
WFC 7215	162	WGC 7180	163	WXC 7140	164		
WFC 7220	162	WGC 7185	163	WXC 7150	164		
WFC 7230	162	WGC 7190	163	WXC 7155	164		
WFC 7235	162	WGC 7195	163	WXC 7160	164		
WFC 7240	162	WGC 7200	163	WXC 7165	164		
WFC 7250	162	WGC 7210	163	WXC 7170	164		

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

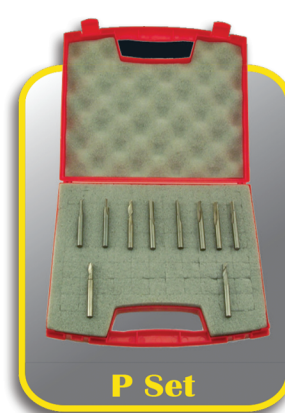
SUD555
S/C 1/2" Dia x 1-1/4" CL
Compression

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



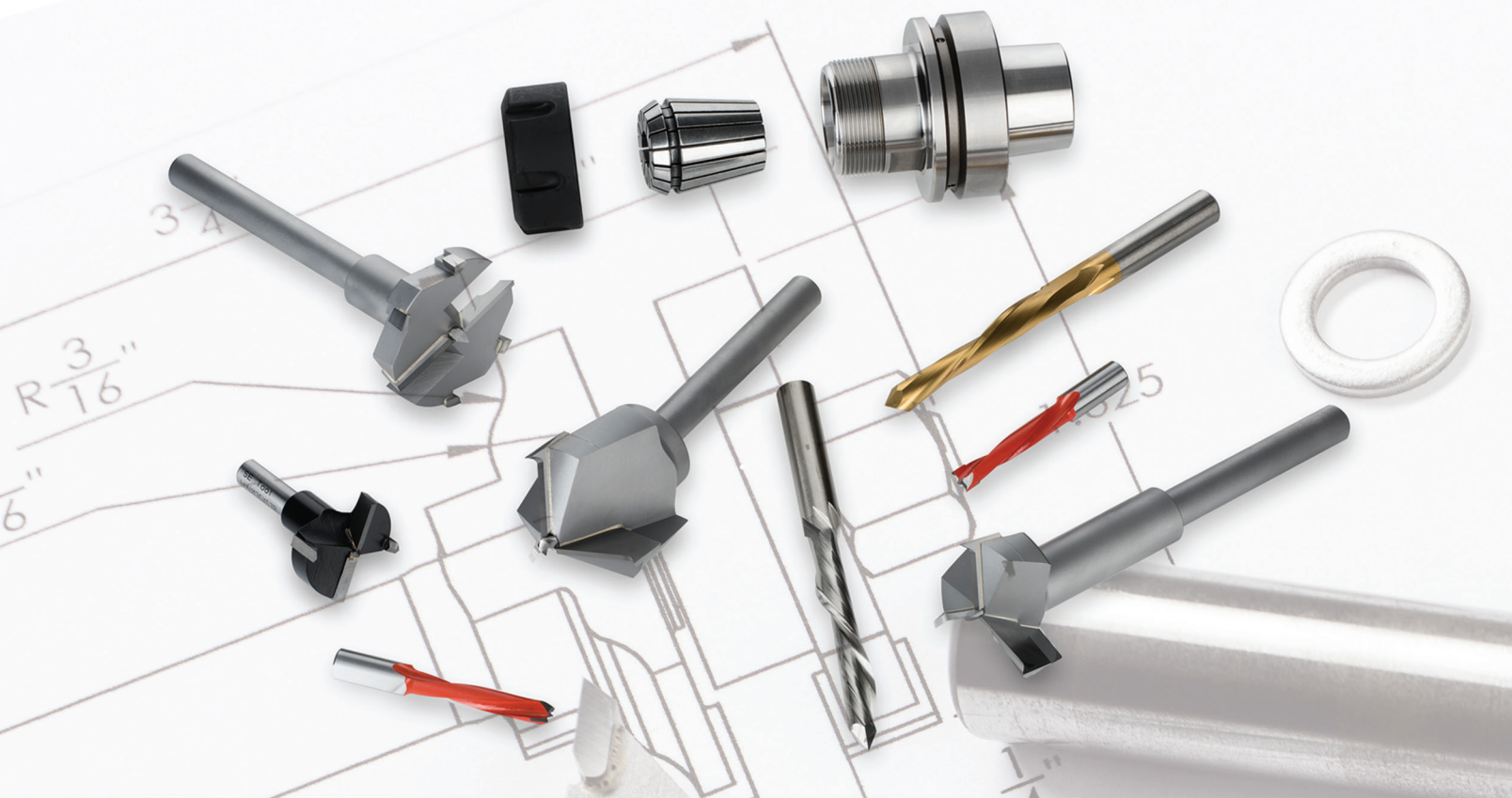
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