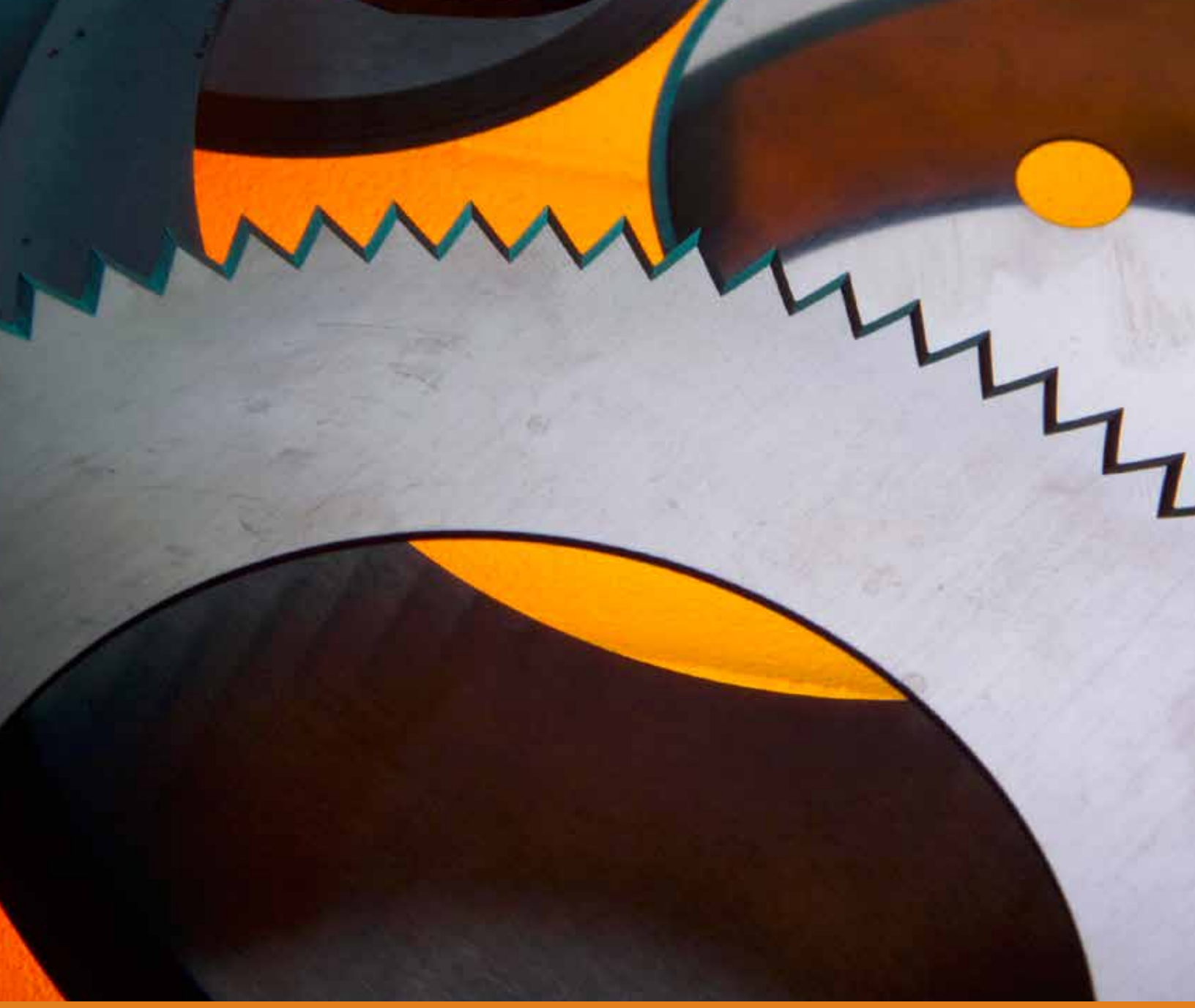
SPECIALTY BLADES

FOR EVERY CUTTING APPLICATION

CADENCE

THE BLADE EXPERTS.

CADENCEINC.COM/BLADES



Don't Just Change Your Blades, Change Your Expectations.

Cadence, Inc. was founded in 1985 as Specialty Blades to address the needs of industries and original equipment manufacturers who required high performance, razor sharp custom-made and standard cutting blades.

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About Cadence

Why Choose Cadence?

- We developed the first commercially available razor blades made from solid ceramic.
- We invented the process to make razor blades from M-2 high speed steel. This process paved the way for our Endurium® line of high performance razor blades.
- We own two patents on novel sharpening technologies.
- We developed a proprietary sharpening process that combined razor blade technology with CNC technology.
- We are the exclusive distributor in North and South America for the Diamaze® brand of diamond coated razor blades.
- We are the exclusive distributor in North and South America for Durham-Duplex high performance machine knives and industrial razor blades.

Refine Your Expectations with Cadence

Since 1985, Cadence has pursued a single goal: surpassing customer expectations by redefining blade performance standards. Our ability to optimize blade performance through innovative technologies helps you achieve higher performance, longer-lasting blades, with less downtime, less rework — all at a lower cost.

Process Optimized. Performance Realized.

Blade technology is our core competency. Cadence is committed to continually seeking new methods of manufacturing and sharpening to build higher-performance, longer-lasting blades for our customers.

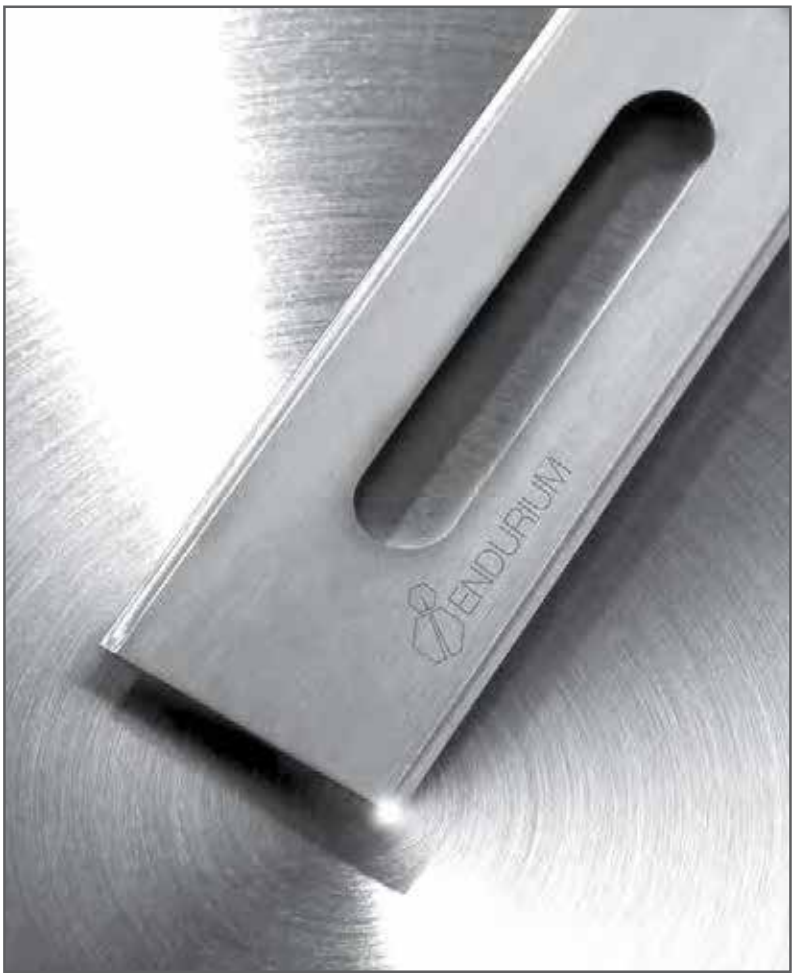
What You Need. When You Need It.

Total customer satisfaction, whether related to quality, delivery or price, is the utmost importance to every member of the Cadence team. By continually investing in state-of-the-art technology and instilling all of our employees with a commitment to customer satisfaction, we ensure that you are supplied with the high-performance, high quality cutting blades you require. Cadence has the resources to deliver what you need, when you need it.

Industries Served

Cadence utilizes a proprietary CNC sharpening process to manufacture razor-sharp, made-to-order cutting blades and machining knives for many different industrial applications, including:

- Plastic extrusion
- Packaging
- Film/foil/paper converting
- Food processing
- Precision hand tools
- Plastic pelletizing
- Blow molding and flash trimming
- Computerized plotting and sign manufacturing
- Fiber and textile chopping and manufacturing
- Cable cutting and stripping
- Tire and automotive production
- Medical valve slitting and tube cutting



cadenceinc.com/blades

Don't See What You Need? We Make Specialty Blades.

We developed a process utilizing custom-designed, programmable Computer Numerical Control (CNC) machinery to generate and sharpen blanks for custom-made blades. This process features precisely controlled, multiple-step grinding and honing sequences similar to that used on razor blades. This process also accommodates different steels not available in strip form and unique edge configurations not possible with continuous strip sharpening.

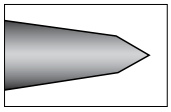
Since its inception, Cadence has been committed to delivering outstanding and long-lasting cutting performance for our customers. We promise to continue to offer the same high-quality product that we have taken great pride in providing over the last two decades. We feel that if we optimize your cutting processes with superior blades, then you will get the level of output and performance you need.

Custom Manufacturing

Materials in Stock

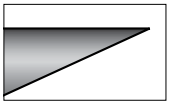
- 1095 Carbon Steel
- Heat-treated Stainless Steels including 410, 420, 716, 440A, 440C
- 301 Stainless, 17-4 PH Stainless
- High-Speed Steels including M2 and M4
- Tool steels including D2, A2, S7, and 07
- Extreme-Wear-Tool Steels including A11 and CPM10V
- Tungsten Carbide
- Zirconia Ceramic

Edge Geometry Options



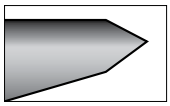
Double bevel

The most common edge, a double-bevel edge can be sharpened to an extremely keen edge. Since cutting forces are symmetrical to blade design, this edge minimizes the tendency to "roll" or deform.



Chisel edge

A pure chisel edge is used when the cut must be co-incident with one side of the blade, or when a "shearing" action is required.

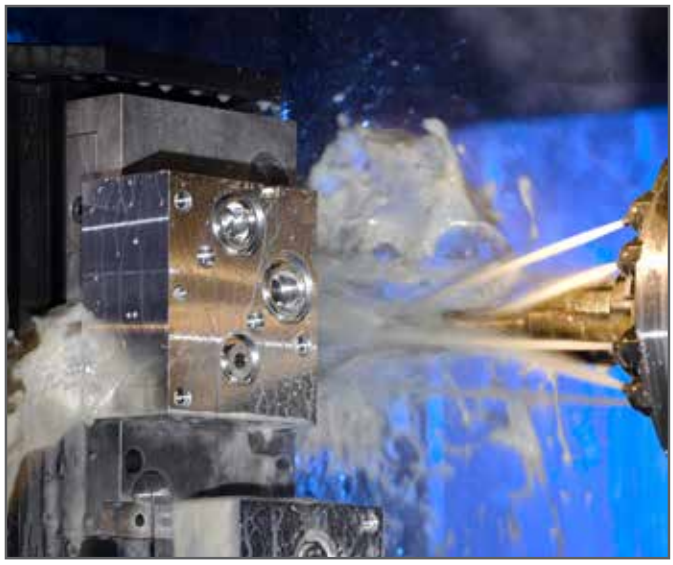


Modified chisel

Similar to chisel edge, but with an added secondary hone facet at the blade tip. This geometry provides the sharpness of the double-bevel edge, while giving an off-center cut.

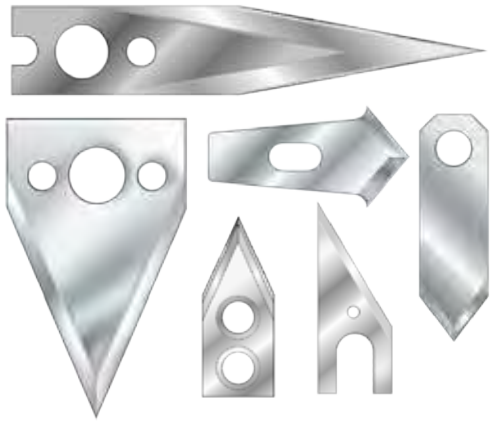
Cadence Blades Can Help You:

- Increase Productivity
- Improve Quality
- Increase Profit
- Reduce Downtime
- Reduce Scrap
- Reduce Costs

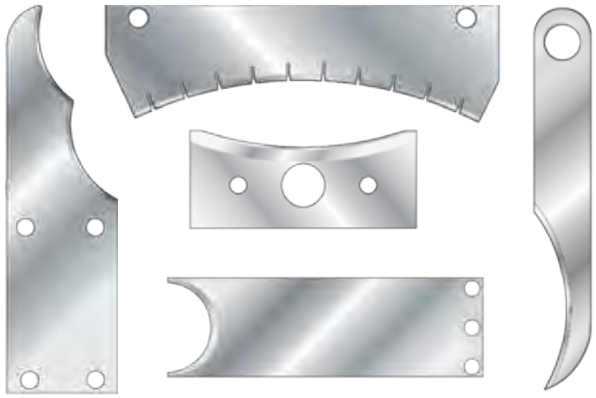


Blade Shapes For Every Application

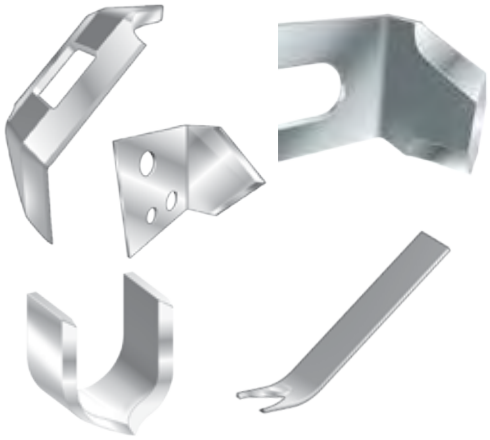
Pointed Tip Blades



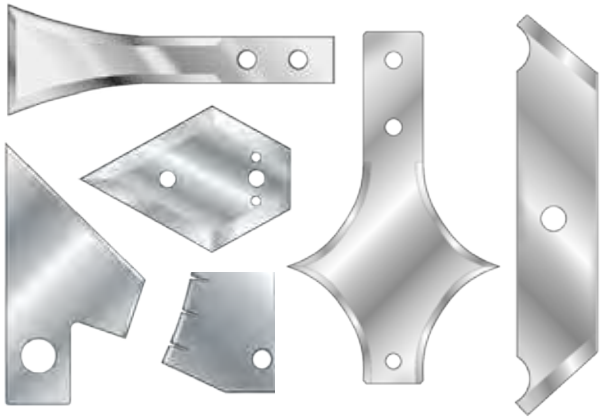
Concave/Hook Blades



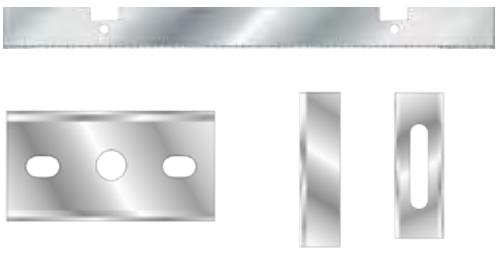
Formed Blades



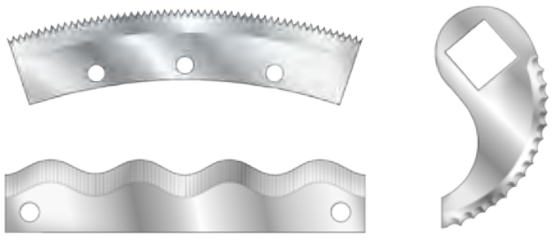
Multiple-Edged Blades



Straight Blades From Extreme Wear Materials



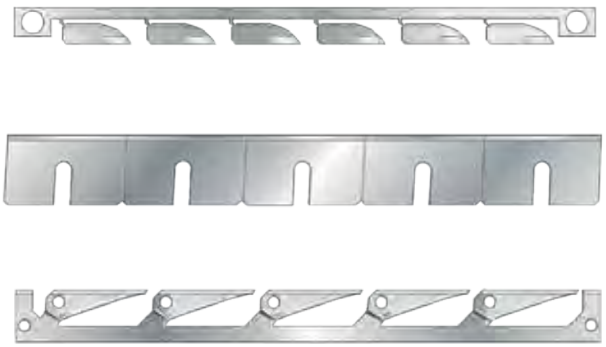
Combination Edge Geometry Blades



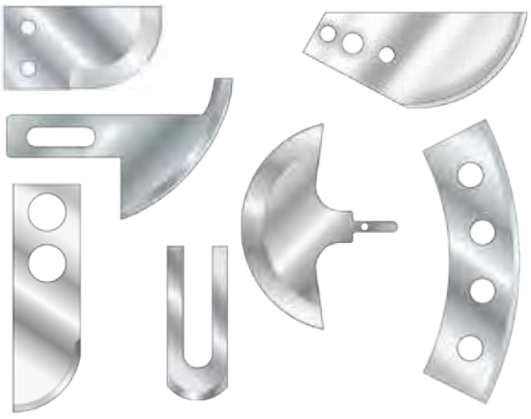
Blade Shapes

Since many blades are made-to-order, the illustrations may not be to scale and are only a limited representation of Cadence's unique manufacturing capabilities.

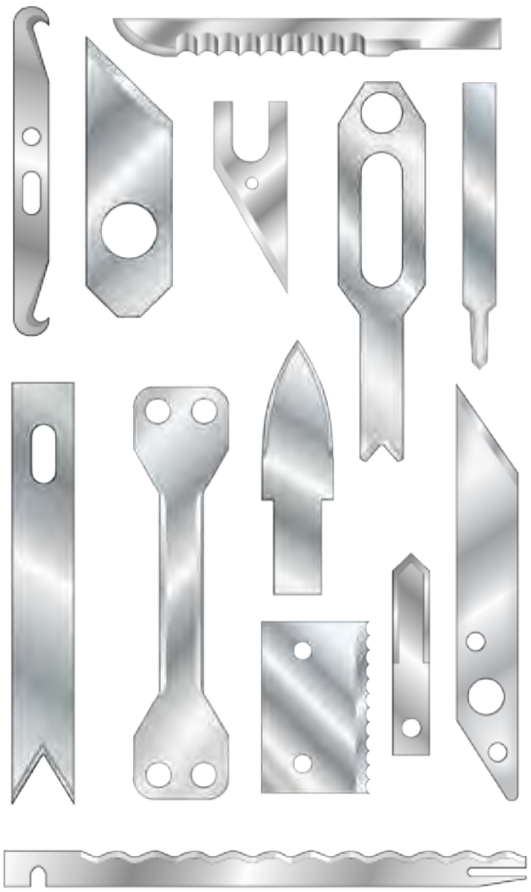
Scored Strips



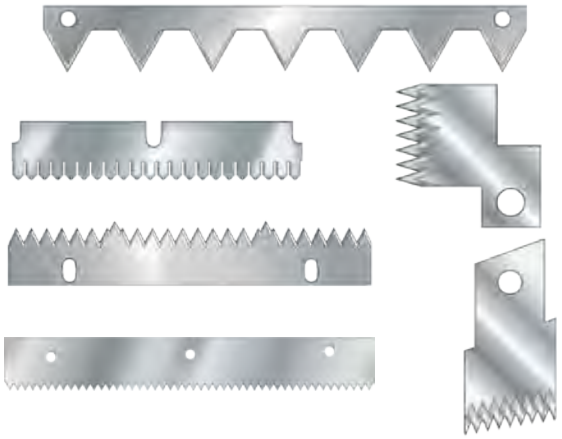
Convex/Curve Blades



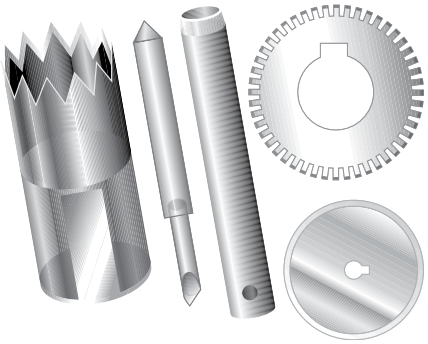
Other Blade Shapes & Edges



Toothed-Edged Blades



Circular Blades & Sharpened Tubes



Our Brands

CADENCE

From longer lasting standard blades to made-to-order custom blades, Cadence has unique manufacturing capabilities to meet your needs.

Cadence offers many standard blades under our well known and trusted brands, including:

ENDURIUM®

Endurium® is used by the experts in the film, foil and paper slitting and converting industries. Engineered to outlast standard carbon steel, Endurium® slitter blades are designed for high performance industrial applications.

Available in slotted, injector and 3-hole style, there's an Endurium® razor blade to meet your slitting and converting needs.

OPTIMA®

Optima® ceramic coated blades last 10x longer than standard carbon steel blades. Available in slotted, 3-hole, and injector styles, there is an Optima® blade to fit your application. These blades are made of highly engineered Carbon and stainless steels and coated with premium ceramic coatings that improve the life of the blade, improve cutting performance and reduce downtime on your machine.

MEDXX™

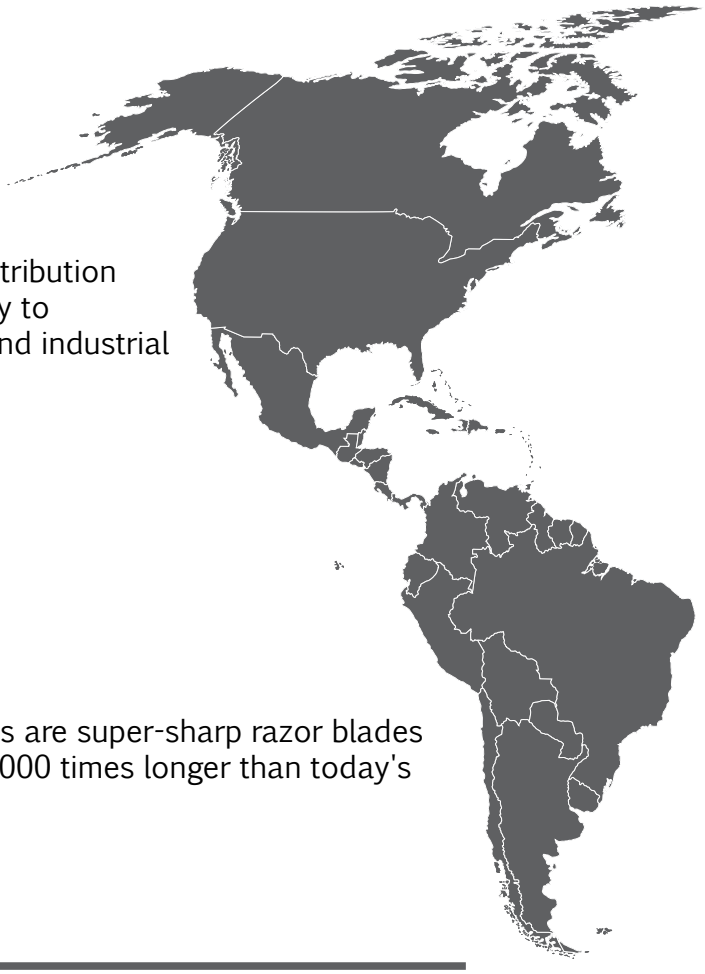
MEDXX™ blades are optimized for the best tube cutting performance for plastic extrusions. Innovative blades designed to meet increasing demand for high performance tubing required for medical, laboratory and biopharm applications.

As the trend in tubing continues in the direction of thinner, smaller, smoother, improved strength, greater ductility, combined with unique shapes and tighter tolerances, the challenge of cutting these products is increasing.

Don't see what you're looking for in this catalog? Give us a call, we may already make it. Cadence makes many replacement blades for OEM Equipment.

Our Brands

Cadence is the exclusive distributor for North and South America for the following brands:



Durham-Duplex is an international company with distribution across the World. The company maintains the ability to manufacture over 14,000 different machine knives and industrial blades.

Diamaze® Plasma Sharpened Diamond (PSD) blades are super-sharp razor blades made of industrial diamonds that lasts more than 1,000 times longer than today's conventional blade.

Cadence is also a long time trusted distributor of Olfa premium hand tools.

Visit our online store today to order OLFA's premium cutters, knives, blades and accessories for industrial professionals, contractors, do-it-yourselfers, safety managers and crafters. Believing that high quality, durability, efficiency and safety are of the utmost importance, OLFA is committed to providing premium products.

Order Online at store.cadenceinc.com

ENDURIUM®
INDUSTRIAL RAZOR BLADES

LONG LASTING RAZOR BLADES MADE FROM BREAKTHROUGH MATERIALS TECHNOLOGY

SOLID CERAMIC

Recommended for all high performance applications needing maximum wear resistance and where minimal force is applied to the blade and breakage is not an issue.

Lasts 100X Longer Than Carbon Steel Blades

CARBIDE

Recommended for all high performance applications where solid ceramic is not optimal due to breakage.

Lasts 80X Longer Than Carbon Steel Blades

COATED

Recommended for all high performance applications currently using uncoated or coated carbon steel blades and needing superior wear resistance, and where solid ceramic is not optimal due to breakage.

Ceramic Coated/Wears 2X as Long as Coated Carbon Steel Blades

Lasts up to 16X Longer Than Carbon Steel Blades

STANDARD

Recommended for any application where ENDURIUM® Coated or Solid Ceramic cannot be used.

Lasts up to 8X Longer Than Uncoated Carbon Steel Blades

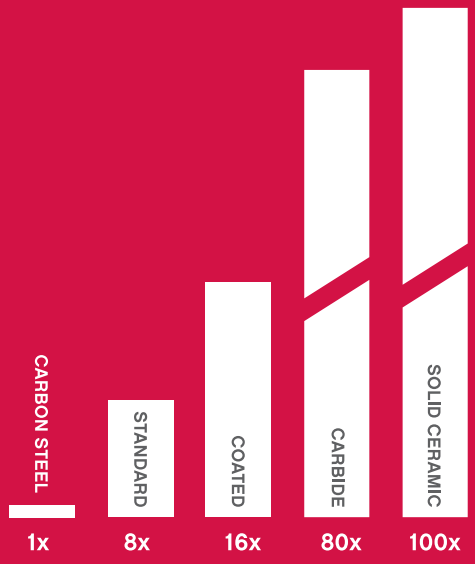
Better Value Than Typical Carbon Steel

ENDURIUM® BLADES ARE ENGINEERED TO OUTLAST AND OUTPERFORM CARBON STEEL BLADES

YOU CAN SEE THE DIFFERENCE

ENDURIUM® coated blade after slitting 3,000,000 feet.

Standard carbon steel blade after slitting 225,000 feet.



Our blade's life compared to a typical carbon steel blade.

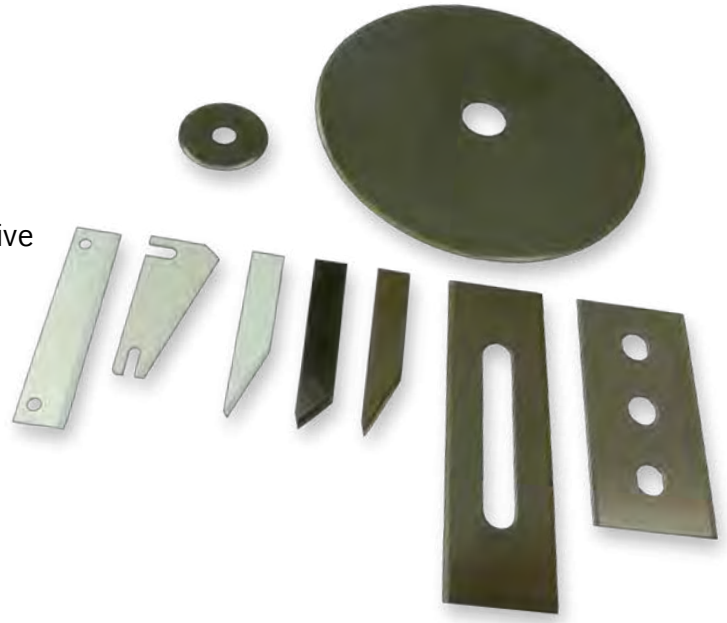
CADENCEINC.COM/ENDURIUM

ENDURIUM®
INDUSTRIAL RAZOR BLADES

CADENCE IS THE WORLD'S LARGEST MANUFACTURER OF RAZOR SHARP BLADES FROM SOLID CERAMIC MATERIAL. ENDURIUM'S ZIRCONIA CERAMIC RAZOR BLADES ARE EXTREMELY HARD, SHARP AND VERY WEAR RESISTANT. BLADE LIFE CAN BE MORE THAN 100 TIMES THAT OF CONVENTIONAL STEEL.

KEY CHARACTERISTICS

- Superior wear resistance - much longer lasting blade life
- High corrosion resistance
- Non-magnetic, non-metallic, and non-conductive
- Low coefficient of friction
- High resistance to heat
- Submicron grain structure yields keenest possible cutting edges
- Sharpest ceramic blades in the world



CERAMIC BLADES ARE WIDELY USED IN MANY CUTTING APPLICATIONS, INCLUDING:

- Razor slitting operations for plastic film, metal foil, and paper.
- Capacitor manufacturing, via green ceramic cutting and circuit board trimming for the electronics industry.
- Pill cutting for the pharmaceutical industry.
- Graphics industry, such as computerized cutting of signs and mat board.
- Surgical devices - typically where non-magnetic properties enable use in MRI type environments.

Note: Due to high hardness, ceramic blades are not recommended for high-shock or high torque applications.

Cadence stands ready to assist you in achieving the optimum design that will allow you to get maximum performance from your ceramic razor blades.

OPTIMA®
INDUSTRIAL RAZOR BLADES

STANDARD RAZOR BLADES WITH PREMIUM COATINGS

HIGH QUALITY PERFORMANCE

Last 8-12X longer than standard steel blades.

ADVANCED COATING

High performance coating results in cleaner edge cuts and less web breaks.

IMPROVING PRODUCTION

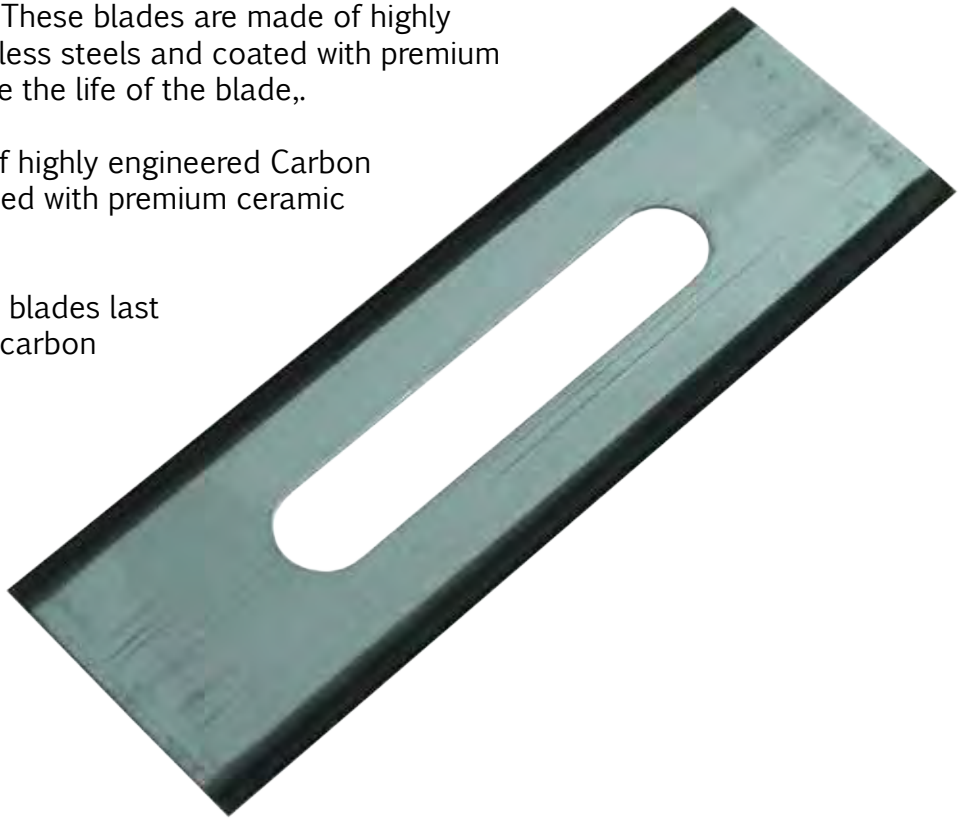
Less downtime and maintenance. Disposable blades.

Optima® ceramic coated blades last 10x longer than standard carbon steel blades.

Available in slotted, 3-hole, and injector styles, there is an Optima® blade to fit your application. These blades are made of highly engineered Carbon and stainless steels and coated with premium ceramic coatings that improve the life of the blade,.

Optima® blades are made of highly engineered Carbon and stainless steels and coated with premium ceramic coatings.

- Optima® ceramic coated blades last 10x longer than standard carbon steel blades
- Improve cutting performance and reduce downtime on your machine

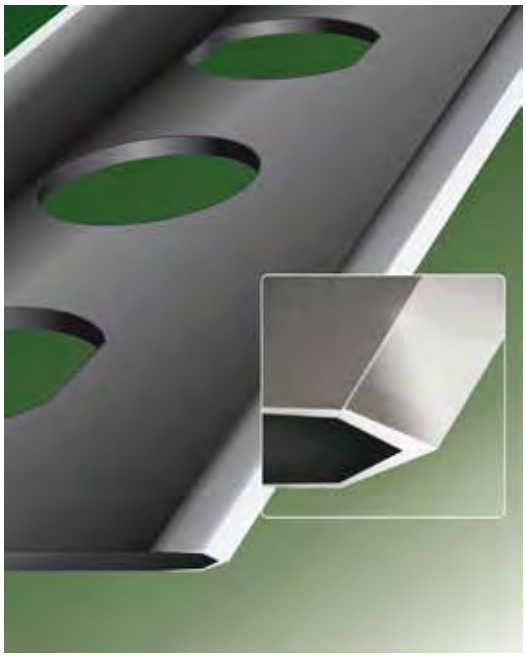


CADENCEINC.COM/OPTIMA

Diamaze
PSD-Blade

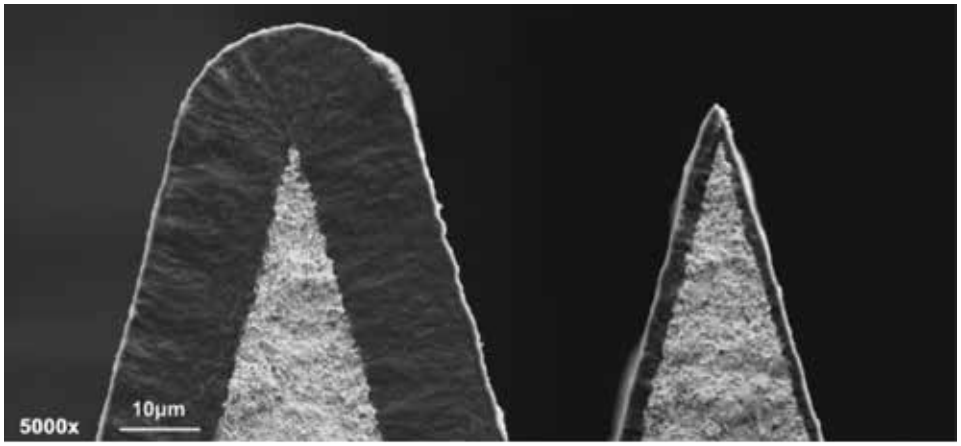
Plasma Sharpened Diamond (PSD) Blade

Cadence is the exclusive distributor in North and South America of the Diamaze® Plasma Sharpened Diamond (PSD) blades. A super-sharp razor blade made of industrial diamonds that lasts more than 1,000 times longer than today's conventional blade.



The technological breakthrough achieved by GFD on the Diamaze® blades employs two specialized processes: the nanocrystalline diamond coating of a carbide blade followed by the plasma sharpening of the blade. To manufacture such a technically superior razor blade a nanocrystalline diamond coating is first applied to a carbide blade. Then the ultra thin layers of pure diamond are polished by an innovative plasma sharpening process developed by the GFD researchers.
The blade is polished until the cutting edge is sharpened to only a few nanometers, therefore consisting of merely a few atoms. This process manages, for the first time, to combine the hardest material in the world with the sharpest possible cutting edge.

Industrial diamond razor blades demonstrate a product life of up to 1,000 times longer than steel blades. The hardest material known to man ensures that the blade remains ultrasharp.



Blade with diamond coating Blade after plasma sharpening

Razor Slitting Guide

Cadence, Inc. is the world's largest manufacturer of specialty blades used in razor slitting. Our Endurium® and Optima® brands of specialty blades were developed in close cooperation with major converting companies from around the world.

In a world that gets measured on how many pounds of product gets processed every hour of every shift of every day, we help reinforce the following guidelines for the best possible razor slitting performance:

- **Materials matter**. Improve wear materials to increase blade life. Available in all shapes, these materials include:
  - M2 high speed steel
  - Tungsten carbide
  - Zirconia ceramic

  It is critical as a first step in optimizing razor slitting performance to identify the most wear resistant material that will hold up in a given slitting operation.

- **Thinner blades are better**. It is best to use the thinnest blade possible. Thinner blades:
  - Create the least amount of drag on the product while being processed.
  - Help minimize or eliminate web breaks.

- **Lower the "Angle Of Attack"**. Most materials and blades perform at optimal levels when blades are positioned at no more than a 45° angle to material. Angles lower than 45° should be tested and used when at all possible for cleaner cuts. Lower angles can improve slicing motion and spread wear out over more of the cutting surface.

- **Better surface finish matters**. Improving the surface finish of cutting edges and other blade surfaces will:
  - Lower the coefficient of friction, reducing heat and wear
  - Improve cutting performance via cleaner edge cuts

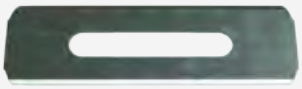
- **Coatings add to blade life**. When very thin ceramic and diamond like coatings are applied to the cutting edge, blade life can be improved up to 10 times depending on the type of coating and blade substrate. As an added benefit, high performance coatings can also aid in improved surface finish and reduced friction of the cutting edge.

- **Optimized edge geometry extends blade life and improves slit product quality**. Optimize the cutting edge geometry for your application to zero in on best possible slitting results. Test various cutting edge angles and let the actual test results dictate best angle combination for your process.

- **Ultimate edge quality improves slit product quality**. Multi-facet, hollow ground edges deliver the ultimate edge quality for burr/nick free edges to get best cutting results (cleaner edge cuts and elimination of web breaks).

- **Blade shape lowers total cost of slitting**. It is most cost effective to use double sided blades where all 4 corners of blade can be used (reducing cost and inventory).

Slotted Blades

Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 2.25” x 0.75” DOUBLE EDGE	DF-SLD15	DIAMAZE®	Carbide	Diamond	0.015	1300	1
	DF-SLD24	DIAMAZE®	Carbide	Diamond	0.024	1300	1
	EF-SLC10	ENDURIUM®	M2 High Speed Steel	Ceramic	0.010	16	100
	EF-SLC10BP	ENDURIUM®	M2 High Speed Steel	Ceramic	0.010	16	1000
	EF-SLC14	ENDURIUM®	M2 High Speed Steel	Ceramic	0.014	16	100
	EF-SLC14PC	ENDURIUM®	M2 High Speed Steel	Ceramic	0.014	16	100
	EF-SLC14WRAP	ENDURIUM®	M2 High Speed Steel	Ceramic	0.014	16	100
	EF-SLH10	ENDURIUM®	M2 High Speed Steel		0.010	8	100
	EF-SLH10BP	ENDURIUM®	M2 High Speed Steel		0.010	8	1000
	EF-SLH14	ENDURIUM®	M2 High Speed Steel		0.014	8	100
	EF-SLH14BP	ENDURIUM®	M2 High Speed Steel		0.014	8	1000
	EF-SLH14T	ENDURIUM®	M2 High Speed Steel	PTFE	0.014	8	100
	EF-SLW10	ENDURIUM®	Carbide		0.010	80	5
	EF-SLW15	ENDURIUM®	Carbide		0.015	80	5
	EF-SLW15C	ENDURIUM®	Carbide	Boron Carbide	0.015	90	5
	EF-SLW15T	ENDURIUM®	Carbide	PTFE	0.015	80	5
	EF-SLW35	ENDURIUM®	Carbide		0.035	80	5
	EF-SLZ15	ENDURIUM®	Ceramic		0.015	100	5
	EF-SLZ25	ENDURIUM®	Ceramic		0.025	100	5
	OF-SLB15	OPTIMA®	Carbon Steel		0.015	1	500
	OF-SLB15IW	OPTIMA®	Carbon Steel		0.015	1	100
	OF-SLC15	OPTIMA®	Carbon Steel	Ceramic	0.015	8	100
	OF-SLC15BP	OPTIMA®	Carbon Steel	Ceramic	0.015	8	1000
	OF-SLC15PC	OPTIMA®	Carbon Steel	Ceramic	0.015	8	100
	OF-SLT15	OPTIMA®	Carbon Steel	TiN	0.015	4	100
 2.225” x 0.762” END SHARPENED	EF-SLC14-ES	ENDURIUM®	M2 High Speed Steel	Ceramic	0.014	16	100
	OF-SLC15-ES	OPTIMA®	Stainless Steel	Ceramic	0.015	10	100
 2.25” x 0.75” ROUNDED DOUBLE EDGE	OF-SLB15-RE-S	OPTIMA®	Carbon Steel		0.015	1	500
	OF-SLC15-RE-S	OPTIMA®	Stainless Steel	Ceramic	0.015	10	100

Slotted Blades (continued)

Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 2.25" x 0.75" SINGLE EDGE	EF-SSC10	ENDURIUM®	M2 High Speed Steel	Ceramic	0.010	16	100
	EF-SSC14	ENDURIUM®	M2 High Speed Steel	Ceramic	0.014	16	100
	EF-SSH10	ENDURIUM®	M2 High Speed Steel		0.010	8	100
	EF-SSH14	ENDURIUM®	M2 High Speed Steel		0.014	8	100
	EF-SSZ15	ENDURIUM®	Ceramic		0.015	100	5
	EF-SSZ25	ENDURIUM®	Ceramic		0.025	100	5
	OF-SSB15-S	OPTIMA®	Stainless Steel		0.015	2	500
	OF-SSC09	OPTIMA®	Carbon Steel	Ceramic	0.009	8	100
	OF-SSC15-S	OPTIMA®	Carbon Steel	Ceramic	0.015	8	100

Injector Blades

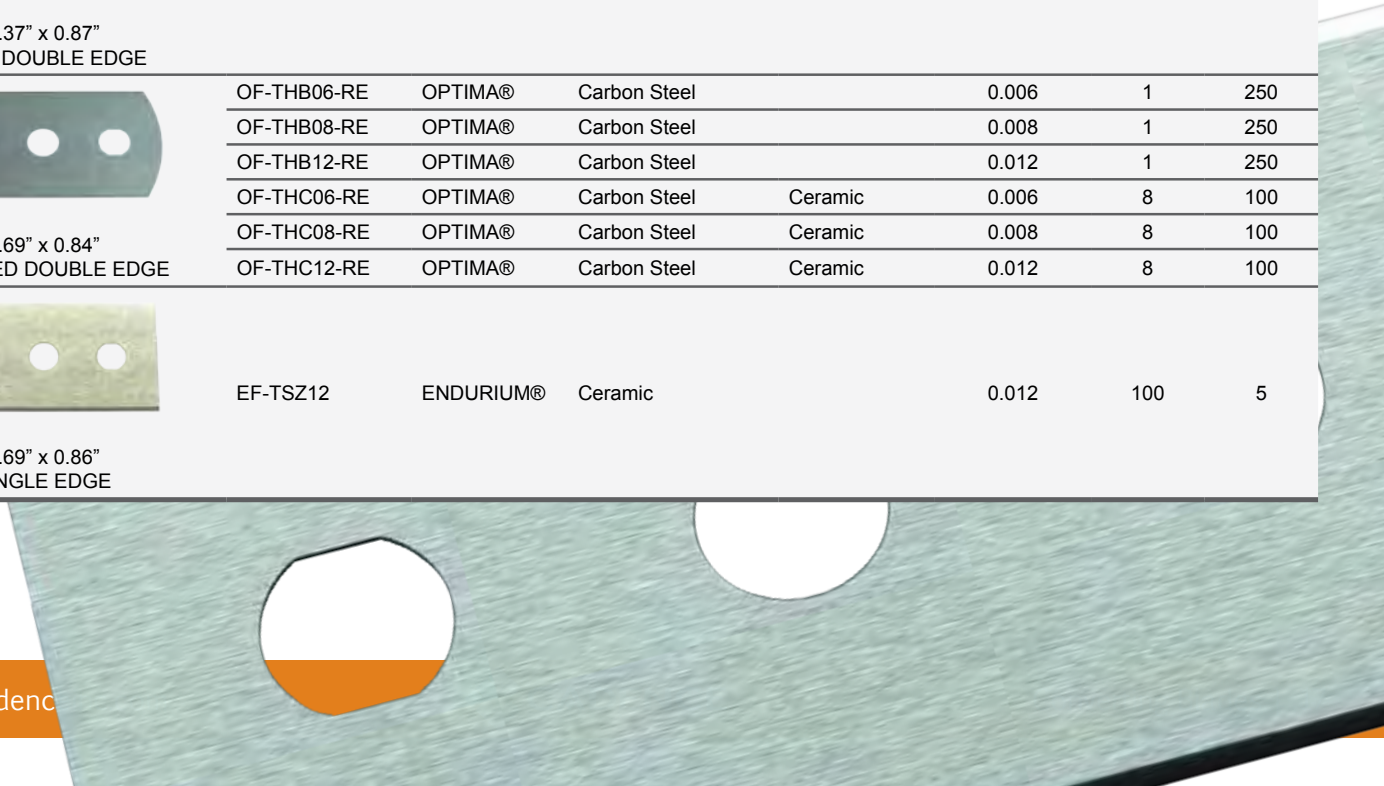
Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 1.5" x 0.315" NO HOLE	CT-927	ENDURIUM®	Ceramic		0.012	100	10
	EF-INW10	ENDURIUM®	Carbide		0.010	80	10
	EF-INZ10	ENDURIUM®	Ceramic		0.010	100	10
 1.5" x 0.315" TWO HOLE	EF-INC10	ENDURIUM®	M2 High Speed Steel	Ceramic	0.010	16	100
	EF-INH10	ENDURIUM®	M2 High Speed Steel		0.010	8	100
	EF-INH10BP	ENDURIUM®	M2 High Speed Steel		0.010	8	1500
	OF-INB10	OPTIMA®	Blue Tempered Carbon Steel		0.010	<1	1000
	OF-INC10	OPTIMA®	Blue Tempered Carbon Steel	Ceramic	0.010	8	100
	OF-INC10BP	OPTIMA®	Blue Tempered Carbon Steel	Ceramic	0.010	8	1000

Blades Available For Processing Any of These Substrates:

- LLPDE
- HDPE
- LDPE
- PP
- OPP
- BOPP
- PET
- OPET
- BOPET
- Metallocenes
- Lonomers
- PVC
- Polycarbonates
- Polyimide
- Metalized Film
- Adhesive and Coated Film
- Coextruded Film

3-Hole Blades

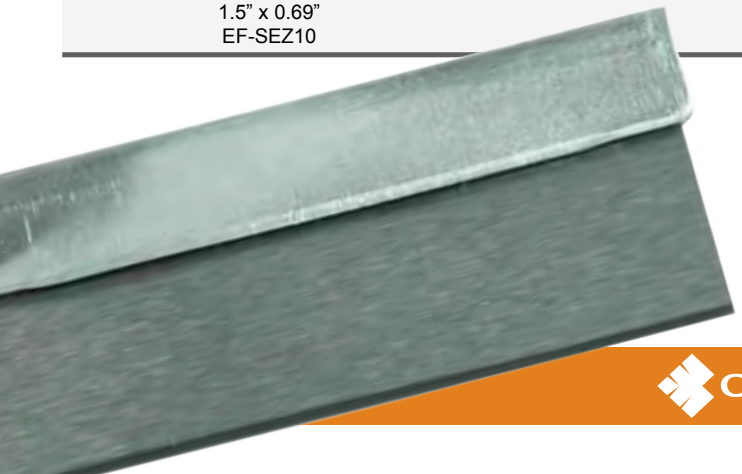
Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 1.69” x 0.84” DOUBLE EDGE	DF-THD08	DIAMAZE®	Carbide	Diamond	0.008	1300	1
	DF-THD12	DIAMAZE®	Carbide	Diamond	0.012	1300	1
	DF-THD16	DIAMAZE®	Carbide	Diamond	0.016	1300	1
	DF-THD24	DIAMAZE®	Carbide	Diamond	0.024	1300	1
	EF-THC06	ENDURIUM®	M2 High Speed Steel	Ceramic	0.006	16	100
	EF-THC08	ENDURIUM®	M2 High Speed Steel	Ceramic	0.008	16	100
	EF-THH06	ENDURIUM®	M2 High Speed Steel		0.006	8	100
	EF-THH08	ENDURIUM®	M2 High Speed Steel		0.008	8	100
	EF-THW04	ENDURIUM®	Carbide		0.004	80	5
	EF-THW08	ENDURIUM®	Carbide		0.008	80	5
	EF-THW12	ENDURIUM®	Carbide		0.012	80	5
	EF-THZ12	ENDURIUM®	Ceramic		0.012	100	5
	OF-THB06	OPTIMA®	Carbon Steel		0.006	1	250
	OF-THB12	OPTIMA®	Carbon Steel		0.012	1	100
	OF-THB16	OPTIMA®	Carbon Steel		0.016	1	100
	OF-THC04	OPTIMA®	Stainless Steel	Ceramic	0.004	10	100
	OF-THC06	OPTIMA®	Stainless Steel	Ceramic	0.006	10	100
	OF-THC08	OPTIMA®	Stainless Steel	Ceramic	0.008	10	100
	OF-THC12	OPTIMA®	Carbon Steel	Ceramic	0.012	8	100
	OF-THC16	OPTIMA®	Carbon Steel	Ceramic	0.016	8	100
	OF-THS04	OPTIMA®	Stainless Steel		0.004	2	250
	OF-THS08	OPTIMA®	Stainless Steel		0.008	2	250
 2.37” x 0.87” LONG DOUBLE EDGE	OF-THC12-L	OPTIMA®	Carbon Steel	Ceramic	0.012	8	100
 1.69” x 0.84” ROUNDED DOUBLE EDGE	OF-THB06-RE	OPTIMA®	Carbon Steel		0.006	1	250
	OF-THB08-RE	OPTIMA®	Carbon Steel		0.008	1	250
	OF-THB12-RE	OPTIMA®	Carbon Steel		0.012	1	250
	OF-THC06-RE	OPTIMA®	Carbon Steel	Ceramic	0.006	8	100
	OF-THC08-RE	OPTIMA®	Carbon Steel	Ceramic	0.008	8	100
	OF-THC12-RE	OPTIMA®	Carbon Steel	Ceramic	0.012	8	100
 1.69” x 0.86” SINGLE EDGE	EF-TSZ12	ENDURIUM®	Ceramic		0.012	100	5



Converting Blades

Single Edge Blades

Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 1.5” x 0.75” CT-FEATHER	CT-FEATHER	OPTIMA®	Carbon Steel		0.009	1	1000
	CT-FEATHER-C	OPTIMA®	Carbon Steel	Ceramic	0.009	8	100
 1.5” x 0.69” EF-GMW08	EF-GMW08	ENDURIUM®	Carbide		0.008	80	5
 1.5” x 0.69” EF-SEC10	EF-SEC10	ENDURIUM®	M2 High Speed Steel	Ceramic	0.010	16	100
 1.5” x 0.69” EF-SEH10	EF-SEH10	ENDURIUM®	M2 High Speed Steel		0.010	8	100
 1.5” x 0.69” EF-SEW10	EF-SEW10	ENDURIUM®	Carbide		0.010	80	5
 1.5” x 0.69” EF-SEZ10	EF-SEZ10	ENDURIUM®	Ceramic		0.010	100	5



EF-GMW08

1.5” x 0.69”

Single Edge Blades (continued)

Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 1.5” x 0.69” ES-GMW09	ES-GMW09	ENDURIUM®	Carbide		0.009	80	5
 1.7” x 0.84” OF-SEB09	OF-SEB09	OPTIMA®	Carbon Steel		0.009	1	1000
 1.7” x 0.84” OF-SEC09	OF-SEC09	OPTIMA®	Carbon Steel	Ceramic	0.009	8	100
 1.55” x 0.7 SBIZ18X40	SBIZ18X40	ENDURIUM®	Ceramic		0.012	100	5

OF-SEC09
1.7” x 0.84”

OF-SEB09
1.7” x 0.84”

Converting Blades

Utility Blades

Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 2.5" x 0.75" TWO NOTCH	EF-UTA15	ENDURIUM®	A11 Tool Steel		0.015	50	5
	EF-UTA25	ENDURIUM®	A11 Tool Steel		0.023	50	5
	EF-UTA25C	ENDURIUM®	A11 Tool Steel	Ceramic	0.023	70	5
	EF-UTW23	ENDURIUM®	Carbide		0.023	80	5
 2.375" x 0.75" TWO NOTCH	OF-UTC25	OPTIMA®	Carbon Steel	Ceramic	0.025	8	100
	OF-UTB25	OPTIMA®	Carbon Steel		0.025	1	500
	OF-UTC36	OPTIMA®	Carbon Steel	Ceramic	0.036	8	100
 2.0" x 0.75" TWO NOTCH	OF-UTB18	OPTIMA®	Carbon Steel		0.018	1	100
	OF-UTC18	OPTIMA®	Carbon Steel	Ceramic	0.018	8	100

Utility blades are one of the most widely used and standardized forms of razor blades. Because of their commonality, utility blades are often selected as the cutting tool in industrial machines during machine design. If your machine uses a utility blade, our utility blades offer you the chance to significantly reduce your blade changeovers through the use of highly wear resistant materials you will not find elsewhere.

Most utility blades are made from run of the mill carbon steel. This allows mass producers and direct importers to sell them for pennies. However, if you are using these blades in a machine where downtime and changeovers can be expensive, standard utility blades offer sub-optimal life and thus are quite expensive.

At Cadence our Endurium® utility blades are made from highly wear resistant tool steels. Our customers buy them because they outlast standard carbon steel blades by up to 80 times. If optimizing your blades' life is important to you, give us a call today!

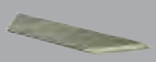
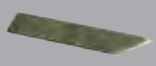
EF-UTW23
2.5" x 0.75"

Proprietary CNC sharpening technology allows Cadence to precision sharpen **pointed blades** with razor-like edges in a pointed tip configuration for added versatility and optimized cutting performance. Pointed tip blades can be best applied in applications that require:

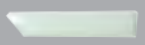
- A sharp point to actually initiate a cut in a tough material.
- The lowest possible penetration force.
- A slit area of a given length, such as in piercing a slit in a rubber diaphragm.

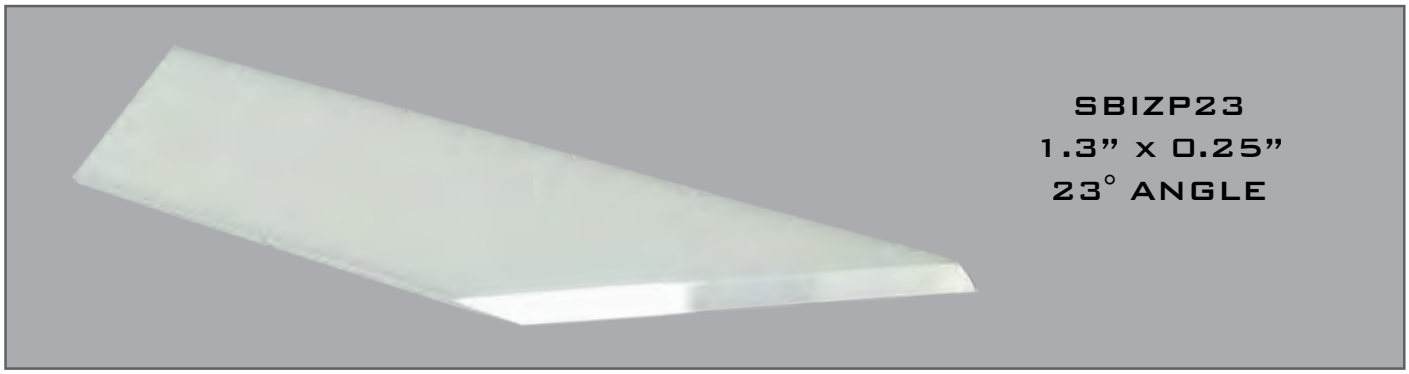
The cost of a pointed tip blade is incrementally higher than a blade having a simple straight edge shape, but the additional benefits noted above will often outweigh the marginal increase in cost.

Pointed Tip Blades

Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 #23 X-ACTO HOBBY BLADE	OF-HYB25	OPTIMA®	Carbon Steel		0.025	1	1000
	OF-HYC25	OPTIMA®	Carbon Steel	Ceramic	0.025	8	100
 1.3” x 0.25” 23° ANGLE	SBIZP23	ENDURIUM®	Ceramic		0.020	100	10
 1.3” x 0.237” 25° ANGLE	SBIZP2	ENDURIUM®	Ceramic		0.020	100	10
 1.3” x 0.237” 45° ANGLE	SBIZP4	ENDURIUM®	Ceramic		0.020	100	10

Pointed Tip Blades (continued)

Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 1.3” x 0.25” 45° ANGLE	SBIZP45	ENDURIUM®	Ceramic		0.020	100	10
 1.3” x 0.25” 45° ANGLE, 0.10” EDGE HEIGHT	SBIZP45B	ENDURIUM®	Ceramic		0.020	100	10
 1.3” x 0.25” 45° ANGLE, 0.17” EDGE HEIGHT	SBIZP45A	ENDURIUM®	Ceramic		0.020	100	10
 1.3” x 0.25” 50° ANGLE	SBIZP50	ENDURIUM®	Ceramic		0.020	100	10

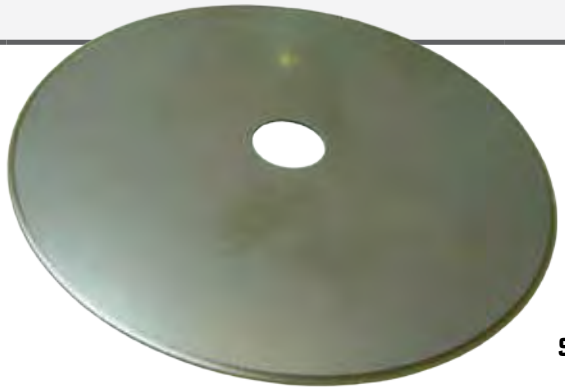


Cadence offers razor sharp, standard and custom made **circular blades**, rotary cutters, and rotary knives from the most wear resistant raw materials found anywhere in the world, such as A11 tool steel, carbide and zirconia ceramic. CNC technology allows for unique expertise in the precision sharpening of razor-like edges in form ground edge shapes such as scallops or teeth. These high wear and special cut circular blades, rotary cutters, and rotary knives can be best applied in applications that require a series of sharp points to actually initiate a cut in a tough material, such as soft foam, corrugated boxes, or plastic film.

While many circular blades, rotary cutters, and rotary knives are custom-made, Cadence does offer a standard product line of small diameter steel rotary cutters and ceramic circular blades from inventory.

Circular Blades

Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 0.709" O.D. x 0.196" I.D. 18MM O.D. x 5MM I.D. ROUND HOLE	SBIZ18	ENDURIUM®	Ceramic		0.015	100	5
 1.102" O.D. x 0.196" I.D. 28MM O.D. x 5MM I.D. ROUND HOLE	SBIZ28	ENDURIUM®	Ceramic		0.015	100	5
 1.772" O.D. x 0.330" I.D. 45MM O.D. x 8.4MM I.D. ROUND HOLE	SBIZ45	ENDURIUM®	Ceramic		0.015	100	5



SBIZ75

Circular Blades (continued)

Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 2.363" O.D. x 0.398" I.D. 60MM O.D. x 10MM I.D. ROUND HOLE	SBIZ60	ENDURIUM®	Ceramic		0.015	100	5
 2.953" O.D. x 0.398" I.D. 75MM O.D. x 10MM I.D. ROUND HOLE	SBIZ75	ENDURIUM®	Ceramic		0.015	100	5
 2.953" O.D. x 0.398" I.D. 75MM O.D. x 10MM I.D. ROUND HOLE	SBI075	CADENCE	Stainless Steel		0.025	2	5
	SBI075A	CADENCE	M2 High Speed Steel		0.025	8	5
	SBI075AT	CADENCE	M2 High Speed Steel	Ceramic	0.025	16	5
 1.102" O.D. x 0.196" I.D. 28MM O.D. x 5MM I.D. W/ KEYWAY	SBI028A	CADENCE	Stainless Steel		0.062	2	5
	SBI028B	CADENCE	M2 High Speed Steel		0.014	8	5
	SBI028D	CADENCE	Stainless Steel		0.015	2	5
 1.772" O.D. x 0.330" I.D. 45MM O.D. x 8.4MM I.D. W/ KEYWAY	SBI045A	CADENCE	Stainless Steel		0.025	2	5
	SBI045C	CADENCE	M2 High Speed Steel		0.016	8	5
	SBI045D	CADENCE	Carbide		0.012	80	5
 2.363" O.D. x 0.398" I.D. 60MM O.D. x 10MM I.D. W/ KEYWAY	SBI060A	CADENCE	M2 High Speed Steel		0.014	8	5

Core Cutters

Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 2” O.D. x 0.312” I.D.	SBIP90A	CADENCE	M2 High Speed Steel		0.063	8	50
 3” O.D. x 0.312” I.D. w/ 1” Slot	SBIP91	CADENCE	O1 Tool Steel		0.062	2	50

Cadence **core cutter** blades produce an overall lower cost through better performance – saving you money compared to cheap, low quality blades. Cadence blades are manufactured for better performance and extended use. Call for other size options available.

SBIP90A

SBIP91

Dished Slitter Top Knife with Plain Bore Single Keyway

			Metric			U.S. Customary			
Part ID	Bevel	Material	O.D. (mm)	I.D. (mm)	Thickness (mm)	O.D. (in)	I.D. (in)	Thickness (in)	Standard Pack Size
SBI-DS001	Single Bevel	O1 Tool Steel	62	40	1	2.441	1.575	0.039	1
SBI-DS002	Single Bevel	O1 Tool Steel	62	40	1.2	2.441	1.575	0.047	1
SBI-DS003	Single Bevel	O1 Tool Steel	65	40	0.8	2.559	1.575	0.031	1
SBI-DS004	Single Bevel	O1 Tool Steel	65	40	1	2.559	1.575	0.039	1
SBI-DS005	Single Bevel	O1 Tool Steel	65	40	1.2	2.559	1.575	0.047	1
SBI-DS006	Single Bevel	O1 Tool Steel	68	40	1.2	2.677	1.575	0.047	1
SBI-DS007	Single Bevel	O1 Tool Steel	75	45	1.2	2.953	1.772	0.047	1
SBI-DS008	Single Bevel	O1 Tool Steel	75	50	1	2.953	1.969	0.039	1
SBI-DS009	Single Bevel	O1 Tool Steel	90	60	1.2	3.543	2.362	0.047	1
SBI-DS010	Single Bevel	O1 Tool Steel	100	60	1.2	3.937	2.362	0.047	1
SBI-DS011	Single Bevel	O1 Tool Steel	100	65	1.2	3.937	2.559	0.047	1
SBI-DS012	Single Bevel	O1 Tool Steel	100	70	0.8	3.937	2.756	0.031	1
SBI-DS013	Single Bevel	O1 Tool Steel	100	70	1.2	3.937	2.756	0.047	1
SBI-DS014	Single Bevel	O1 Tool Steel	105	65	1.2	4.134	2.559	0.047	1
SBI-DS015	Single Bevel	O1 Tool Steel	105	70	1.2	4.134	2.756	0.047	1
SBI-DS016	Single Bevel	O1 Tool Steel	105	75	1.2	4.134	2.953	0.047	1
SBI-DS017	Single Bevel	O1 Tool Steel	108	65	1.2	4.252	2.559	0.047	1
SBI-DS018	Single Bevel	O1 Tool Steel	108	75	1.2	4.252	2.953	0.047	1
SBI-DS019	Single Bevel	O1 Tool Steel	110	75	1.2	4.331	2.953	0.047	1
SBI-DS020	Single Bevel	O1 Tool Steel	130	80	1.5	5.118	3.15	0.059	1
SBI-DS021	Single Bevel	O1 Tool Steel	130	100	1.5	5.118	3.937	0.059	1
SBI-DS022	Single Bevel	O1 Tool Steel	135	100	1.5	5.315	3.937	0.059	1
SBI-DS023	Double Bevel	O1 Tool Steel	110	75	1.2	4.331	2.953	0.047	1
SBI-DS024	Double Bevel	O1 Tool Steel	90	60	1.2	3.543	2.362	0.047	1
SBI-DS025	Double Bevel	O1 Tool Steel	100	60	1.2	3.937	2.362	0.047	1
SBI-DS026	Double Bevel	O1 Tool Steel	100	70	0.8	3.937	2.756	0.031	1
SBI-DS027	Double Bevel	O1 Tool Steel	102	70	1.2	4.016	2.756	0.047	1
SBI-DS028	Double Bevel	O1 Tool Steel	105	65	1.2	4.134	2.559	0.047	1
SBI-DS029	Double Bevel	O1 Tool Steel	105	75	1.2	4.134	2.953	0.047	1
SBI-DS030	Double Bevel	O1 Tool Steel	108	65	1.2	4.252	2.559	0.047	1
SBI-DS031	Double Bevel	O1 Tool Steel	108	75	1.2	4.252	2.953	0.047	1
SBI-DS032	Double Bevel	O1 Tool Steel	108	82	1.2	4.252	3.228	0.047	1
SBI-DS033	Double Bevel	O1 Tool Steel	112	81	1.2	4.409	3.189	0.047	1
SBI-DS034	Double Bevel	O1 Tool Steel	130	70	1.5	5.118	2.756	0.059	1
SBI-DS035	Double Bevel	O1 Tool Steel	130	75	1.2	5.118	2.953	0.047	1
SBI-DS036	Double Bevel	O1 Tool Steel	130	80	1.5	5.118	3.15	0.059	1
SBI-DS037	Double Bevel	O1 Tool Steel	130	100	1.5	5.118	3.937	0.059	1
SBI-DS038	Double Bevel	O1 Tool Steel	135	100	1.5	5.315	3.937	0.059	1
SBI-DS042	Single Bevel	D2 Tool Steel	65	40	1	2.559	1.575	0.039	1
SBI-DS043	Single Bevel	D2 Tool Steel	105	65	1.2	4.134	2.559	0.047	1

Dished Slitter Top Knife with Plain Bore Single Keyway (continued)

			Metric			U.S. Customary			
Part ID	Bevel	Material	O.D. (mm)	I.D. (mm)	Thickness (mm)	O.D. (in)	I.D. (in)	Thickness (in)	Standard Pack Size
SBI-DS044	Single Bevel	D2 Tool Steel	130	80	1.5	5.118	3.15	0.059	1
SBI-DS045	Double Bevel	D2 Tool Steel	130	80	1.5	5.118	3.15	0.059	1
SBI-DS046	Double Bevel	D2 Tool Steel	62	40	1.2	2.441	1.575	0.047	1
SBI-DS047	Double Bevel	D2 Tool Steel	100	70	1.2	3.937	2.756	0.047	1
SBI-DS048	Double Bevel	D2 Tool Steel	105	75	1.2	4.134	2.953	0.047	1
SBI-DS049	Double Bevel	D2 Tool Steel	150	80	2.3	5.906	3.15	0.091	1

Flat Slitter Top Knife

			Metric			U.S. Customary			
Part ID	Bevel	Material	O.D. (mm)	I.D. (mm)	Thickness (mm)	O.D. (in)	I.D. (in)	Thickness (in)	Standard Pack Size
SBI-FS001	Double Bevel (Recessed Back)	D2 Tool Steel	90	60	1.2	3.543	2.362	0.047	1
SBI-FS002	Double Bevel (Recessed Back)	D2 Tool Steel	180	70	2.5	7.087	2.756	0.098	1

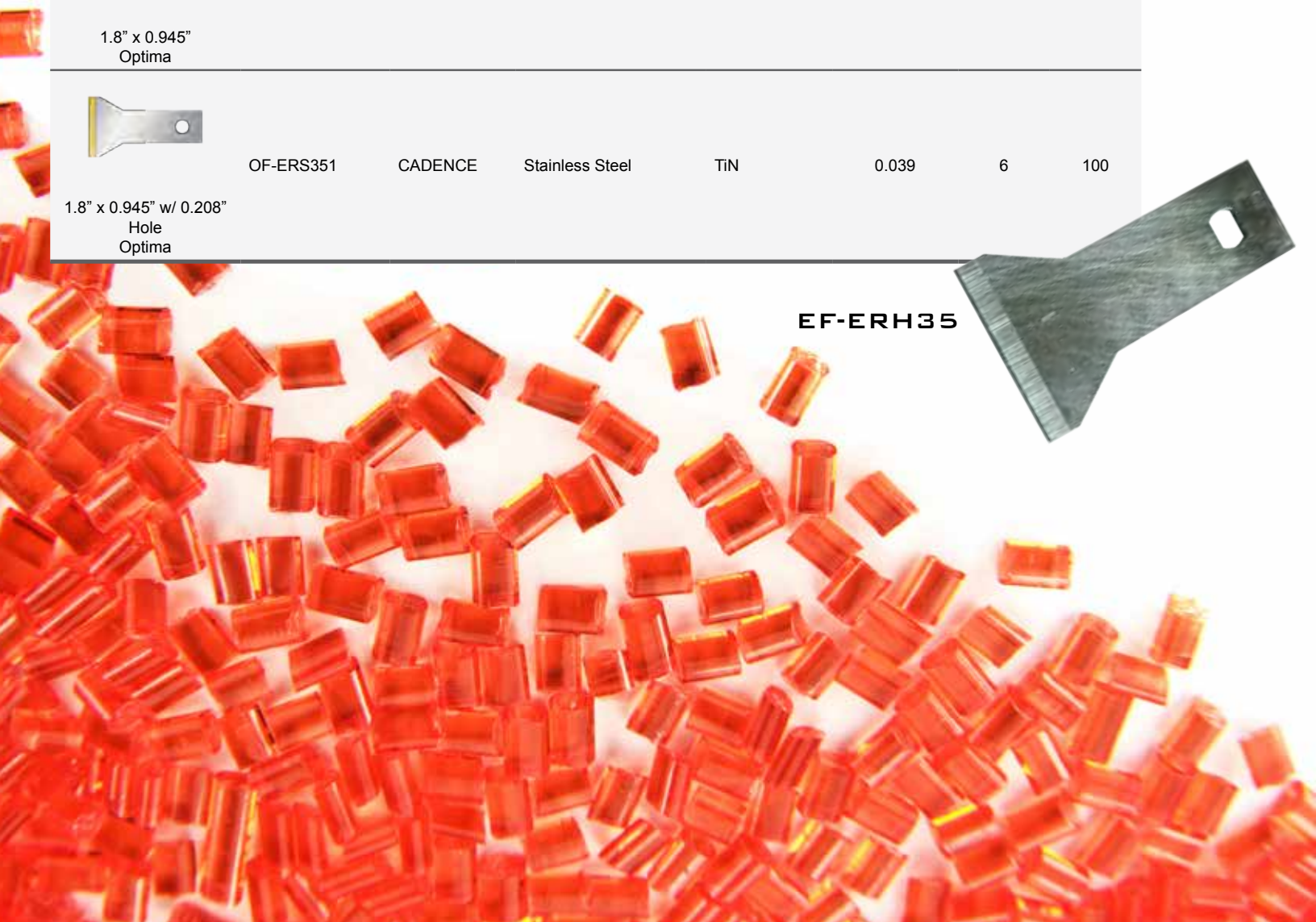
Bottom Cutter

			Metric			U.S. Customary			
Part ID	Bevel	Material	O.D. (mm)	I.D. (mm)	Thickness (mm)	O.D. (in)	I.D. (in)	Thickness (in)	Standard Pack Size
SBI-BC001	None	O1 Tool Steel	50	30	10	1.969	1.181	0.394	1
SBI-BC002	None	O1 Tool Steel	75	60	15	2.953	2.362	0.591	1
SBI-BC003	None	O1 Tool Steel	77	60	10	3.031	2.362	0.394	1
SBI-BC004	None	O1 Tool Steel	80	60	10	3.15	2.362	0.394	1
SBI-BC005	None	O1 Tool Steel	90	60	10	3.543	2.362	0.394	1
SBI-BC006	None	O1 Tool Steel	105	80	10	4.134	3.15	0.394	1
SBI-BC007	None	O1 Tool Steel	105.54	90	10	4.155	3.543	0.394	1
SBI-BC008	4mm Grub Screw	O1 Tool Steel	50	25	10	1.969	0.984	0.394	1
SBI-BC009	2.5mm Grub Screw	O1 Tool Steel	50	30	10	1.969	1.181	0.394	1
SBI-BC010	4mm Grub Screw	O1 Tool Steel	50	30	10	1.969	1.181	0.394	1

Plastic Recycling/Pelletizing

Plastic Recycling/Pelletizing Blades

Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 1.8” x 0.945” Endurium	EF-ERB35	ENDURIUM®	Bi-Metal		0.035	8	100
	EF-ERH35	ENDURIUM®	M2 High Speed Steel		0.035	8	100
 1.8” x 0.945” Optima	OF-ERS35	OPTIMA®	Stainless Steel		0.035	2	100
 1.8” x 0.945” Optima	OF-ERS35T	OPTIMA®	Stainless Steel	TiN	0.035	6	100
1.8” x 0.945” w/ 0.208” Hole Optima	OF-ERS351	CADENCE	Stainless Steel	TiN	0.039	6	100



EF-ERH35

Straight Edge

	Part ID	Equipment OEM	Material	Coating	Thickness (in)
 4.192” x 0.75”	SBI105		Stainless Steel		0.015
	SBI105A		M2 High Speed Steel		0.016
 8.343” x 0.590”	SBIP29	EQUIMEX	Stainless Steel		0.039

Scalloped Edge

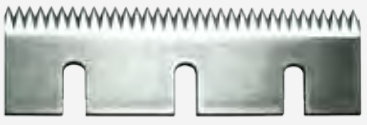
	Part ID	Equipment OEM	Material	Coating	Thickness (in)
 9.229” x 0.490”	SBIP78A		Stainless Steel		0.058
 18.68” x 0.735”	SBIP26	EAGLE	Stainless Steel		0.032
20.47” x 0.75”	SBIP12	HAYSSEN	Stainless Steel		0.031
 12.50” x 0.75”	SBIP62	HAYSSEN	Stainless Steel		0.031
 17.473” x 0.75”	SBIP77	HAYSSEN	Stainless Steel		0.031
 13.475” x 0.870”	SBIP27	TRIANGLE	Stainless Steel	TiN	0.039

Packaging

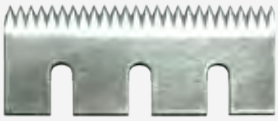
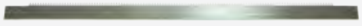
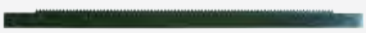
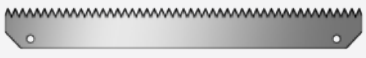
Toothed blades are needed for many precision applications. Cadence uses precision CNC grinding machinery to produce toothed blades with individually ground, razor sharp teeth. Blades can be manufactured with either double bevel or chisel cutting edges and with endless possibilities for tooth pitch and tooth angle. Toothed blades can be best applied in applications that require:

- A sharp point to actually initiate a cut in a tough material, such as a thin plastic packaging material.
- A specific zig-zag shape in the product being cut, such as that needed along the end of a candy wrapper for ease of opening.
- A perforated edge shape to allow for tear tabs or edges.
- These toothed knives and blades can be made from stainless & high wear tool steels for longer life.

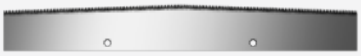
Toothed Blades

	Part ID	Equipment OEM	Material	Coating	Thickness (in)
 12.0" x 1.5"	SBIP05		Stainless Steel		0.039
 13.78" x 3"	SBIP06		Stainless Steel		0.062
 12.75" x 0.84"	SBIP02		Stainless Steel		0.116
 12" x 1.55" (perf / tie edge)	SBIP03		Stainless Steel		0.025
 3.35" x 1.18"	SBIP36	3M	Carbon Steel		0.059

Toothed Blades (continued)

	Part ID	Equipment OEM	Material	Coating	Thickness (in)
 2.55” x 1.18”	SBIP37	3M	Carbon Steel		0.059
 2.44” x 1.18”	SBIP66	3M	Carbon Steel		0.059
 16.50” x 2.0”	SBI030	CRYOVAC	Stainless Steel		0.047
 15.157” x 0.75”	SBIP35	CRYOVAC	Stainless Steel		0.047
 14.523” x 0.975”	SBIP58	CRYOVAC	Stainless Steel		0.047
 12.488” x 0.760”	SBIP61	CRYOVAC	Stainless Steel		0.031
 13.563” x 0.750”	SBIP71	CRYOVAC	Stainless Steel		0.047
 16.325” x 1.825”	SBIP80	CRYOVAC	Stainless Steel		0.032
 2.38” x 1”	SBIP92	DEKKA	O1 Tool Steel		0.059

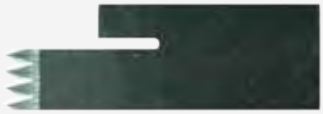
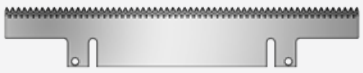
Toothed Blades (continued)

	Part ID	Equipment OEM	Material	Coating	Thickness (in)
 11.812” x 4.717”	SBIP75A	DELICA	Stainless Steel		0.120
 11.968” x 1.573”	SBIP88	DIXIE UNION	Stainless Steel		0.039
 10” x 2.125”	SBIP44	GLOUCESTER	Carbon Steel		0.048
 10” x 2.125”	SBIP44T	GLOUCESTER	Carbon Steel	TiN	0.048
 10” x 2.125”	SBIP45	GLOUCESTER	Carbon Steel		0.048
 10” x 2.125”	SBIP45T	GLOUCESTER	Carbon Steel	TiN	0.048
 10” x 2.125”	SBIP46	GLOUCESTER	Carbon Steel		0.048
 10” x 2.125”	SBIP46T	GLOUCESTER	Carbon Steel	TiN	0.048
 10” x 2.125”	SBIP47	GLOUCESTER	Carbon Steel		0.048

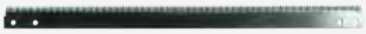
Toothed Blades (continued)

	Part ID	Equipment OEM	Material	Coating	Thickness (in)
 10” x 2.125”	SBIP47T	GLOUCESTER	Carbon Steel	TiN	0.048
 6.693” x 0.80”	SBIP01	INDAG	Carbon Steel	PTFE	0.042
 32.25” x 1.568”	SBIP67	KETTNER/ KRONES	Stainless Steel		0.080
 2.44” x 1”	SBIP31A	LOVESHAW LITTLE DAVID	Blue Tempered Carbon Steel		0.062
	SBIP31B	LOVESHAW LITTLE DAVID	Blue Tempered Carbon Steel		0.020
 2.44” x 1”	SBIP49	LOVESHAW LITTLE DAVID	Carbon Steel		0.020
 3.5” x 1.25”	SBIP50	LOVESHAW LITTLE DAVID	Carbon Steel		0.039
 1.375” x 1.063”	SBI013	MAHAFFY & HARDER	Stainless Steel		0.032
 22.23” x 1.575”	SBIP54	MULTIVAC	Stainless Steel		0.039
 23.81” x 1.570”	SBIP72	MULTIVAC	Stainless Steel		0.039

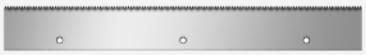
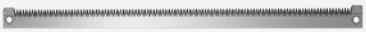
Toothed Blades (continued)

	Part ID	Equipment OEM	Material	Coating	Thickness (in)
 22.24” x 1.583”	SBIP73	MULTIVAC	Stainless Steel		0.039
 17.88” x 1.583”	SBIP76	MULTIVAC	Stainless Steel		0.039
 1.575” x 0.510”	SBIP53	MULTIVAC	Stainless Steel		0.039
 1.572” x 0.397”	SBIP82	MULTIVAC	Stainless Steel		0.039
 8.27” x 1.22”	SBIP57	OMORI	Stainless Steel		0.079
10.50” x 0.38”	SBIP19A	OSSID	Stainless Steel		0.039
 11.77” x 1.98”	SBIP18A	OSSID	Stainless Steel	TiN	0.047
 20.25” x 1.075”	SBIP17	PAC MAC	Stainless Steel		0.062
 40.0” x 1.202”	SBIP20	REISER SUPERVAC	Stainless Steel		0.039

Toothed Blades (continued)

	Part ID	Equipment OEM	Material	Coating	Thickness (in)
 10.829” x 2.546” w/ Tear Notch	SBIP63	ROVEMA	D2 Tool Steel		0.078
 10.829” x 2.546”	SBIP95	ROVEMA	D2 Tool Steel		0.078
 10.51” x 0.71”	SBIP40	SANDIACRE	D2 Tool Steel		0.098
 13.39” x 0.71”	SBIP41	SANDIACRE	D2 Tool Steel		0.098
 16.5” x 0.71”	SBIP51	SANDIACRE	Stainless Steel		0.100
 14.413” x 0.705”	SBIP32A	SANDIACRE	Stainless Steel		0.100
 10.24” x 0.72”	SBIP39	SANDIACRE	D2 Tool Steel		0.098
 10.626” x 1.89”	SBIP64	SANDIACRE	Stainless Steel		0.062
 14.17” x 2.07”	SBIP65	SANDIACRE	D2 Tool Steel		0.078

Toothed Blades (continued)

	Part ID	Equipment OEM	Material	Coating	Thickness (in)
 16” x 1.965”	SBIP84	TIROMAT	Stainless Steel		0.039
 13.995” x 0.775”	SBIP28	TRIANGLE	Stainless Steel	TiN	0.039
 18.665” x 1.0”	SBIP43A	TRIANGLE	Stainless Steel		0.058
 18.69” x 1.0”	SBIP68A	TRIANGLE	Stainless Steel	TiN	0.062
 10.47” x 0.574”	SBIP74	TRIANGLE	Stainless Steel		0.062
 18.69” x 1.0”	SBIP79A	TRIANGLE	Stainless Steel		0.062
 18.25” X 1”	SBIP101	TRIANGLE	Stainless Steel		0.047

SBIP49
2.44” x 1”

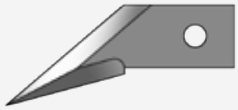
SBI013
1.375” x 1.063”

Circular & Round Edge

	Part ID	Equipment OEM	Material	Coating	Thickness (in)
 14” O.D. x 2.14” I.D.	SBIP69		Stainless Steel		0.041
 90MM O.D. x 42MM I.D.	SBIP38	MULTIVAC	Stainless Steel		0.079
 3.2” O.D. x 1.26” I.D.	SBIP48	TIROMAT	Stainless Steel		0.039
 4” O.D. x 2.75” I.D.	SBIP85	TIROMAT	Stainless Steel		0.039

SBIP38
90MM O.D. x 42MM I.D.

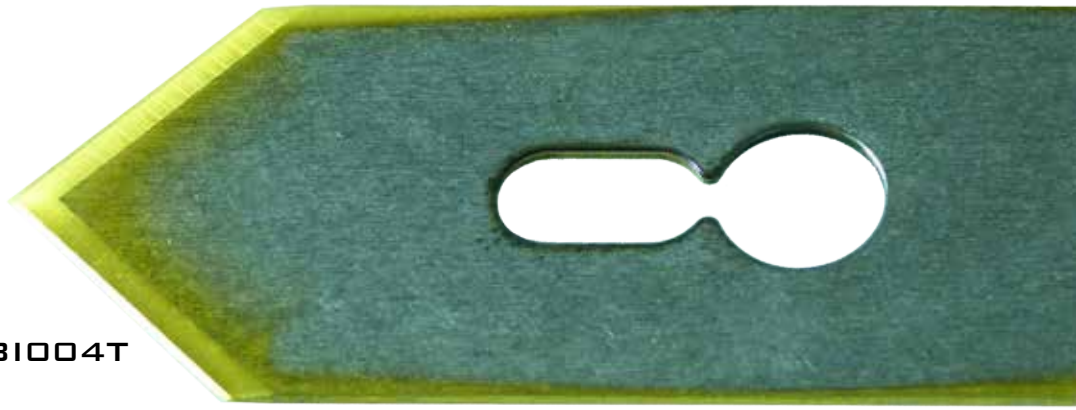
Other Packaging Blades

	Part ID	Equipment OEM	Material	Coating	Thickness (in)
 2.05” x 0.35”	SBIP94				0.025
	SBIP86	BUTLER	Stainless Steel		0.025
	SBIP25	CRYOVAC	Stainless Steel		0.032
 0.741” x 0.315”	SBI006	DIXIE UNION	Stainless Steel		0.020
	SBIP89	IMA	D2 Tool Steel		0.059
	SBIP16	KARTRIDG PAK	D2 Tool Steel		0.050
 1.875” x 0.744”	SBI004	MAHAFFY & HARDER	M2 High Speed Steel		0.025
 1.875” x 0.744”	SBI004T	MAHAFFY & HARDER	M2 High Speed Steel	TiN	0.025

SBIP16

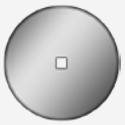
Other Packaging Blades (continued)

	Part ID	Equipment OEM	Material	Coating	Thickness (in)
 1.015” x 0.393”	SBI001	MULTIVAC	M2 High Speed Steel		0.039
	SBI001A	MULTIVAC	Stainless Steel		0.039
	SBIP83	MULTIVAC	M2 High Speed Steel		0.035
 7.425” x 0.986”	SBIP13	T-SIZER	Stainless Steel		0.062



SBI004T

Food Processing Blades

	Part ID Dimension	Equipment OEM	Material	Coating	Thickness (in)
	SBIP14	CARRUTHERS	Stainless Steel		0.041
	SBIP15	CARRUTHERS	Stainless Steel		0.116
	SBIP15B	CARRUTHERS	Stainless Steel		0.058
	SBIP34A	DAPEC	Stainless Steel		0.062
	SBIP98 13” O.D. w/ 1.18” Square Center	MAGURIT	Stainless Steel		0.062
	SBIP99	MAGURIT	Stainless Steel		0.116
	SBIP33A	MAREL	Stainless Steel		0.039
	SBIP21A	MEYN	Stainless Steel		0.020

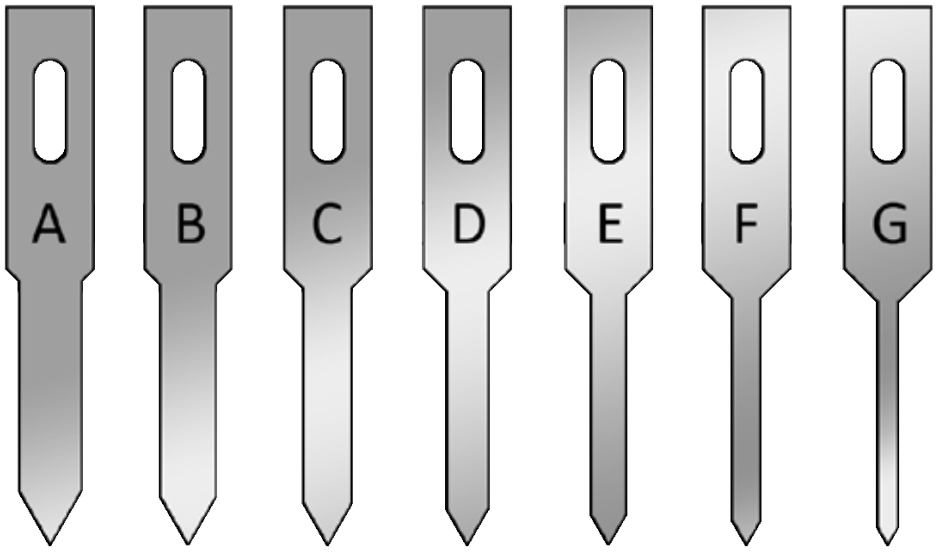
Septum/Valve Slitting

	Slitter Width	Part ID	Thickness (in)	Material	Qty/Pack
 1.5” x 0.25”	0.180”	SBIMD01A	0.015	Stainless Steel	5
	0.160”	SBIMD01B	0.015	Stainless Steel	5
	0.140”	SBIMD01C	0.015	Stainless Steel	5
	0.120”	SBIMD01D	0.015	Stainless Steel	5
	0.100”	SBIMD01E	0.015	Stainless Steel	5
	0.080”	SBIMD01F	0.015	Stainless Steel	5
	0.060”	SBIMD01G	0.015	Stainless Steel	5

Medical Diagnostic Blades and Septum Slitting Blades include:

- Septum blades
- Piercing blades
- Tube cutters
- Catheter cutters

Custom Considerations
From initial design to manufacturing, Cadence works closely with its medical diagnostic blades customers to produce blades that meet their precision cutting requirements.



Because we understand that time to market is a critical piece of medical device development, our business is configured to allow the fastest possible turnaround on prototype and development work.

If you did not see a blade for your application under our stocked items link, please consider the critical aspects of blade selection for use in extrusion or cut-off processes include:

- Material selection for max wear resistance vs. toughness
- Edge geometry to balance cut force with blade life
- Angle of cut determined by blade shape

If you do not see a term describing your process, please contact us directly for more information. Chances are one of our Applications Engineers or Sales Consultants has worked on a similar problem in the past and can use his or her knowledge and experience to create a custom cutting solution for you.

Profile Extrusion/Tube Cutting

MEDXX™ Innovative blades designed to meet increasing demand for high performance tubing required for medical, laboratory and biopharm applications.

Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 1.5" x 0.56" MEDXX1	MEDXX1	MEDXX™	Stainless Steel		0.004	2	5
	MEDXX1A	MEDXX™	Stainless Steel		0.010	2	5
 1.5" x 0.315" MEDXX2	MEDXX2	MEDXX™	Stainless Steel		0.004	2	5
	MEDXX2A	MEDXX™	Stainless Steel		0.010	2	5
 1.5" x 1.0" MEDXX3	MEDXX3	MEDXX™	Stainless Steel		0.004	2	5
	MEDXX3A	MEDXX™	Stainless Steel		0.010	2	5

As the trend in tubing continues in the direction of **thinner, smaller, smoother, improved strength, greater ductility,** combined with **unique shapes** and **tighter tolerances,** the challenge of cutting these products is increasing.

- Minimize Cut Particulates (Reduce Hairs)
- Minimize Deflection
- Improve Slicing for Thin Wall, Flexible Materials
- Maintain Repeatability/Validation of Process
- Reduce Scrap & Down Time
- Standard off the shelf blades
- No need to modify shaving blades
- Two thicknesses available to match specific cutting challenges
- Minimize part interruption with unique relief area
- 400 series stainless provides corrosion resistance combined with good wear resistance and edge retention
- Other material options available on request for longer wearing abrasive cutting challenges

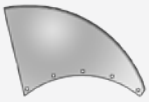
MEDXX™

Other Profile Extrusion/Tube Cutting Blades

	Part ID Dimension	Material	Coating	Thickness (in)
	SBI016	Stainless Steel		0.025
 6.62” x 2.10” (3” Edge)	SBI017	Stainless Steel		0.025
	SBI017A	Stainless Steel		0.031
 4.906” x 1.938”	SBI022	Blue Tempered Carbon Steel		0.032
	SBI024	M2 High Speed Steel		0.016
3” x 0.54”	SBI024A	M2 High Speed Steel		0.010
 3.25” x 0.75”	SBI025	Stainless Steel		0.015
 4.188” x 0.68”	SBI036	M2 High Speed Steel		0.010

SBI017
SBI017A
6.62” x 2.10” (3” Edge)

Other Profile Extrusion/Tube Cutting Blades (continued)

	Part ID Dimension	Material	Coating	Thickness (in)
2” x 0.25”	SBI037	M2 High Speed Steel		0.014
	SBI048	Stainless Steel		0.031
	SBI009	Blue Tempered Carbon Steel		0.042
	SBI009A	Stainless Steel		0.062
	SBI009B	Stainless Steel		0.047
	SBI009C	Stainless Steel		0.039
	SBI009D	Stainless Steel		0.031
	SBI014	Blue Tempered Carbon Steel		0.062
	SBI020	Stainless Steel		0.025
 6.69” x 2”	SBI021	Stainless Steel		0.025

SBI048

Plotting blades and Sign Making blades include:

- Vinyl cutters
- Plotter blade or knife
- Slitting blade
- Cut-off knife
- Cross-cut knife
- Trimming blades

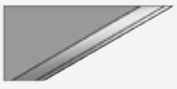
Whether your sign making blade is a simple 30 degree blade for vinyl material, a cross-cut knife for cutting roll stock to length, a custom carbide blade for cutting highly reflective material, or a wear-resistant blade used for precision cutting of magnetic media, specifying the right blade makes all the difference. From vinyl cutters to plotter blades and knives to adhesive tape dispensers to slitting thin plastic, paper or metal films, our experienced applications engineers can help you match the right cutting tool to your application.

Custom Considerations
Critical aspects of sign/label making blade and knife selection for use in sign making applications include:

- Material selection for maximum wear resistance at a reasonable cost
- Edge geometry, especially in the area of the tip, to balance cut force and quality of cut with blade life
- Angle of cut determined by blade shape

If you do not see a term describing your process, please contact us directly for more information. Chances are one of our sales Consultants or Applications Engineers has worked on a similar problem in the past and can use his or her knowledge and experience to create a custom cutting solution for you.

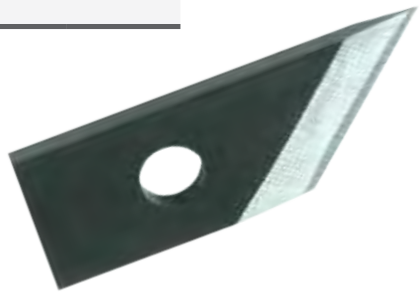
Plotter Blades

Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 0.19" x 0.42" 30° ANGLE	SBIS30	CADENCE	Carbide		0.040	80	50
 0.19" x 0.42" 45° ANGLE	SBIS45	CADENCE	Carbide		0.040	80	50
 0.19" x 0.42" 60° ANGLE	SBIS60	CADENCE	Carbide		0.040	80	50

Plotter Blades (continued)

Blade Type	Part ID	Brand	Material	Coating	Thickness (in)	Wear Index	Standard Pack Size
 1.32” x 0.24” Diamond Coated	DS30	DIAMAZE®	Carbide	Diamond	0.022	1300	1
 1.04” x 0.20” Diamond Coated	DS15	DIAMAZE®	Carbide	Diamond	0.022	1300	1
 0.25” x 0.68” With Hole 0° ANGLE	SBIG05	CADENCE	Carbide		0.038	80	50
 0.25” x 0.68” With Hole 30° ANGLE	SBIG02	CADENCE	Carbide		0.038	80	50
 0.25” x 0.69” With Hole 45° ANGLE	SBIG04	CADENCE	Carbide		0.040	80	50
 0.25” x 0.69” With Hole 45° ANGLE	SBIG06	CADENCE	Carbide		0.020	80	50
 0.25” x 0.79” With Hole 55° ANGLE	SBIG10A	CADENCE	Carbide		0.038	80	50

SBIG04
0.25” x 0.69”
With Hole
45° ANGLE



Fiber Chopping Blades

Fiber Chopping Blades include:

- Synthetic fiber blades
- Glass fiber blades
- Fiberglass cutting blades
- Dry chopping blades
- Wet chopping blades
- Fiberglass choppers
- Textile tow cutters
- Synthetic fiber choppers

M-2 chopping blades will last 4x longer than standard chopping blades, thus, reducing your downtime for roll change-outs and improving throughput.

Fiber Chopping Blades

	Part ID Dimension	Equipment OEM	Material	Coating	Thickness (in)
	SBI029 17.5” x 0.85”		M2 High Speed Steel		0.014
	OS-GRUB36 2.75” x 0.74”	GRU GRU	Stainless Steel		0.036
	ES-FHRH35 3.75” x 0.748”	HERCULES	M2 High Speed Steel		0.035
	ES-HRH35 3.75” x 0.748”	HERCULES	M2 High Speed Steel		0.035
	ES-KRB35 1.89” x 0.313”	KRUPP	Bi-Metal		0.035
	ES-M4H35 2.937” x 0.618”	MARK IV	M2 High Speed Steel		0.035

Fiber Chopping Blades (continued)

	Part ID Dimension	Equipment OEM	Material	Coating	Thickness (in)
	ES-M4W35 2.937” x 0.615”	MARK IV	Carbide		0.035
	OS-M4C35 2.94” x 0.62”	MARK IV	Stainless Steel	Ceramic	0.035
	OS-M4S35 2.94” x 0.62”	MARK IV	Stainless Steel		0.035
	ES-M5B35 4.626” x 0.618”	MARK V	Bi-Metal		0.035
	ES-M5W35 4.626” x 0.615”	MARK V	Carbide		0.035
	SBI104 4.5” x 0.74”	TIEJIN SEIKI	Stainless Steel		0.036

ES-M5W35
4.626” x 0.615”

Other Blades

	Part ID Dimension	Equipment OEM	Coating	Thickness (in)	Material
	EG-20SH25 20” x 0.75”	N/A		0.025	M2 High Speed Steel
	ES-22835S10 22.84” x 0.74”	N/A		0.010	Stainless Steel
	SBI027 17.50” x 0.75”	N/A		0.010	M2 High Speed Steel
	EG-475SH35CH 4.724” x 0.622”	N/A		0.035	M2 High Speed Steel
	EG-3402SH25 3.4” x 0.63”	N/A		0.025	M2 High Speed Steel
	EG-475SH35 4.724” x 0.622”	N/A		0.035	M2 High Speed Steel
	EG-5200SH10 5.2” x 0.315”	N/A		0.010	M2 High Speed Steel
	EG-9055SH35 9.055” x 0.787”	N/A		0.035	M2 High Speed Steel

Hand Tools

The OLFA® brand introduced the world's first snap-off blade in 1956, transforming how contractors, painters and "do-it-yourselfers" work. With its signature innovation, OLFA now produces more than 100 premium precision cutting tools including our cushion grip HandSaver® Series, X OLFA Design Series™ and the UltraMax® ultrasharp black blades. At Cadence, you can find a hand tool for any job. From drywall cutters, carpet cutters, and roofing cutters, to painting supplies and scrapers and more.

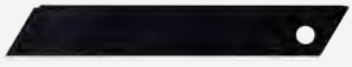
Utility Knives

	Part ID	Description	Replacement Blades	Qty/Pack
	OLFA9150	OLFA® SAC-1 Graphic Knife	9mm - A1160B	1
	OLFA1064416	OLFA® PA-2 Pro-Load Multi-Blade Knife	9mm - AB, ABB	1
	OLFA5019	OLFA® SVR-2 Stainless Knife with Auto-Lock	9mm - AB, ABB	1
	OLFA9046	OLFA® NOL-1 Hand Saver Heavy Duty Knife	18mm - LB, LBB	1
	OLFA5003	OLFA® L-1 Heavy Duty Knife	18mm - LB, LBB	1
	OLFA5004	OLFA® L-2 Heavy Duty Knife with Rubber Grip	18mm - LB, LBB	1
	OLFA5001	OLFA® 180 Standard Knife	9mm - AB, ABB	1
	OLFA5018	OLFA® SVR-1 Deluxe Stainless Steel Knife	9mm - AB, ABB	1
	OLFA5023	OLFA® A Arts & Craft Knife	9mm - AB, ABB	1

Utility Knives (continued)

	Part ID	Description	Replacement Blades	Qty/Pack
	OLFA5006	OLFA® H-1 Extra Heavy Duty Knife with Rubber Grip	25mm - HB, HBB	1
	OLFA5022	OLFA® NA-1 Cushioned Grip Knife	9mm - AB, ABB	1
	OLFA1072198	OLFA® LA-X Heavy Duty Auto-Lock Knife	18mm - LB, LBB	1
	OLFA9091	OLFA® 300 Standard Knife with Blade Lock	18mm - LB, LBB	1

Replacement Blades for Utility Knives

	Part ID	Description	Qty/Pack
 18mm	SBIHB121002D01	18mm Economy Snap-Off Utility Blades	10
 9mm	SBIHB122017D01	9mm Economy Snap-Off Utility Blades	10
 18mm - LB	OLFA1092625	OLFA® LB-5B HD Blades - 5 pack	5
	OLFA5009	OLFA® LB-10B HD Blades - 10 Pack	10
	OLFA5016	OLFA® LB-50B HD Blades - 50 Pack	50
 18mm - LBB	OLFA1072195	OLFA® LBB-5B HD UltraMax Blades - 5 pack	5
	OLFA9070	OLFA® LBB-10B HD UltraMax Blades 10 Pack	10
	OLFA9069	OLFA® LBB-50B HD UltraMax Blades 50 Pack	50

Touch Knives

	Part ID	Description	Qty/Pack
	OLFA9538	OLFA® TK-4R Touch Knife - Red	1
	OLFA9537	OLFA® TK-4B Touch Knife - Black	1
	OLFA9535	OLFA® TK-4Y Touch Knife - Yellow	1
	OLFA1083066	OLFA® TK-4N Touch Knife - Navy	1
	OLFA9539	OLFA® TK-4W Touch Knife - White	1
	OLFA1083065	OLFA® TK-4O Touch Knife - Olive Green	1
	OLFA9584	OLFA® TK-4/60 Touch Knife - 4 Color; 60 Piece Display	60
	OLFA1092494	OLFA® TK-4/BT60 Touch Knife - Yellow; 60 Piece Bucket	60

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Slitter Knives

	Part ID	Description	Replacement Blades	Qty/Pack
	OLFA1096854	OLFA® SK-10 Concealed Blade Safety Knife Slitter	SKB-10B	1
	OLFA1090486	OLFA® PC-L Plastic / Laminate Knife Slitter	PB-800	1

Slitter Blades

	Part ID	Description	Qty/Pack
	OLFA1096855	OLFA® SKB-10B Safety Blades	10
	OLFA5014	OLFA® PB-800 Heavy Duty Blades	3

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Safety Knives

	Part ID	Description	Replacement Blades	Qty/Pack
	OLFA9048	OLFA® SK-4 Self-Retracting Safety Knife	SKB-2, RSKB-2, HOB-2	1
	OLFA1088215	OLFA® SK-4/24 Safety Knife 24-Unit	SKB-2, RSKB-2, HOB-2	24
	OLFA1060595	OLFA® SK-6 Flex-Guard Safety Knife	RSKB-2	1
	OLFA1077174	OLFA® SK-7 Compact Safety Knife	SKB-7	1
	OLFA1077171	OLFA® SK-8 Automatic Retract Safety Knife	SKB-8	1
	OLFA1086095	OLFA® SK-9 Self Retracting w/Tape Slitter	SKB-2, RSKB-2, HOB-2	1

Safety knives are part of our high-quality, safety-focused cutting solutions with a real focus on accident prevention.

Safety knife products include concealed blade safety knives, self-retracting knives, safety blades, carton cutters, and blade disposal containers, like our Blade Bin™.

Cadence helps you make knife safety an absolute priority.

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Safety Blades

	Part ID	Description	Qty/Pack
 SKB-2	OLFA9612	OLFA® SKB-2/5B Safety Knife Blades 5 Pack	5
	OLFA9613	OLFA® SKB-2/10B Safety Knife Blades 10 Pk	10
	OLFA9614	OLFA® SKB-2/50B Safety Knife Blades 50 Pk	50
 RSKB-2	OLFA9615	OLFA® RSKB-2/10BRounded Safety Blades10pk	10
 RSKB-2	OLFA9616	OLFA® RSKB-2/50BRounded Safety Blades50pk	50
 HOB-2	OLFA9617	OLFA® HOB-2/5 Safety Hook Blades - 5 Pack	5
 SKB-7	OLFA1077172	OLFA® SKB-7/10B Safety Knife Blades 10Pk	10
 SKB-8	OLFA1077173	OLFA® SKB-8/10B Safety Knife Blades 10Pk	10

OLFA9048

OLFA® SK-4 Self-Retracting Safety Knife

Rotary Cutters

	Part ID	Description	Replacement Blades	Qty/Pack
	OLFA9657	OLFA® RTY-4 18mm Rotary Cutter	RB18	1
	OLFA9551	OLFA® RTY-1/G 28mm Rotary Cutter	RB28	1
	OLFA9654	OLFA® RTY-2/DX 45mm Deluxe Rotary Cutter	RB45	1
	OLFA9651	OLFA® RTY-2/G 45mm Heavy Duty Rotary Cutter	RB45	1
	OLFA9655	OLFA® RTY-3/DX 60mm Deluxe Rotary Cutter	RB60	1
	OLFA9653	OLFA® RTY-3/G 60mm Large Rotary Cutter	RB60	1

Razor sharp circular rotary blades made from high quality tool steel provide superior sharpness and edge retention.

Rotary cutters are available in a variety of sizes and styles to accommodate all your cutting needs and are also designed for both right- and left-handed use.

Rotary Blades

	Part ID	Description	Qty/Pack
 RB18	OLFA9463	OLFA® RB18 18mm Rotary Blade (Hex Hole)	2
 RB28	OLFA9561	OLFA® RB28 28mm Rotary Blade	2
	OLFA9459	OLFA® RB28 28mm Rotary Blade	5
	OLFA9563	OLFA® RB28 28mm Rotary Blade	10
	OLFA9560	OLFA® RB28 28mm Rotary Blade	500
 RB45	OLFA9452	OLFA® RB45 45mm Rotary Blade	1
	OLFA1079062	OLFA® RB45 45mm Rotary Blade	2
	OLFA9460	OLFA® RB45 45mm Rotary Blade	5
	OLFA9453	OLFA® RB45 45mm Rotary Blade	10
	OLFA9454	OLFA® RB45 45mm Rotary Blade	500
 RB60	OLFA9455	OLFA® RB60 60mm Rotary Blade	1
	OLFA9458	OLFA® RB60 60mm Rotary Blade	5

RB45
45mm Rotary Blade

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Durham-Duplex Safety Knives & Hand Tools

Part ID	#	Name	Description
SBIHRETROLIGHT	1	Retro Light	Die-cast metal, medium-duty knife with top mounted automatic spring-loaded retraction mechanism
SBIHSPRINGERR	2	Springer (Right Handed)	Trimming knife with side mounted automatic spring-loaded retraction safety mechanism
SBIHSPRINGERL	3	Springer (Left Handed)	Trimming knife with side mounted automatic spring-loaded retraction safety mechanism
SBIHRETRO	4	Retro	Die-cast metal, heavy duty knife with top mounted automatic spring-loaded retraction mechanism
SBIHEASYCHANGE	5	Easy Change	Die-cast metal retractable blade knife with push button blade release, line feed blade replacement, and 10-blade side load blade holder
SBIHPOLYSAFEPLUS	6	Polysafe Plus	Robust film slitter with enclosed blade and non-slip rubber handle insert
SBIHSUPASLITPLUS	7	Supaslit Plus	Heavy-duty twin bladed film and paper slitter with enclosed blades, complete with safety guard
SBIHPOLYSAFE	8	Polysafe	Molded plastic film slitter with enclosed replaceable blade
SBIHDUOSLIT	9	Duo-Slit	Molded plastic safety slitter with an enclosed blade, and a hooked blade with safety guard blade and pocket clip
SBIHPOLYGLIDE	10	Polyglide	Plastic molded heavy duty push action slitter with steel blade carrier and spring guard
SBIHPOLYSLIT	11	Polyslit	Economical, molded plastic, disposable film slitter with fixed enclosed blade

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We will Match or Beat Your Current Supplier's Price!

- Made in the US
- Highest quality raw materials – 400 & 300 series stainless steel
- Proprietary CNC controlled forming capabilities – creates a better fit every time for any shape
- Rapid Turnaround
- Match or beat your current supplier's price
- Custom edge configurations available
- Free test piece when you send your drawing or sample

Better Fit, Better Cut, Better Blade - Every Time!

Call us today for more details: (800) 252-3371

Materials & Coatings Information

There is no single material that is appropriate for every application. Cadence offers a wide range of materials and coatings to ensure that customers find the right mix of properties that will perform best in their application.

Material Properties to Consider

When choosing optimum sharps material consider the following properties:

- Corrosion Resistance
- Shape Control during Heat Treat
- Wear Resistance
- Influence on Edge or Point Characteristics
- Cost
- Toughness/Shock Resistance
- Availability
- Size and Finish

Coatings Strategy

Many applications incorporate a coating to reduce wear and improve blade life (TiN, Ceramic, Boron Carbide, Diamond).

Other coatings improve the performance of the blade, such as:

- Parylene – conformal coating that provides a strong moisture barrier and good electronic insulation
- Dry film lubricant coatings such as PTFE – reduces friction
- High-performance synthetic lubricants such as PFPE, PFAE, and PFPAE – reduces friction
- Silicone based coatings – reduces friction

Properties of Common Blade Materials & Coatings

Materials & Coatings	Wear Index•	Corrosion Resistance	Typical Hardness, Rc	Toughness/Shock Resistance
Blue Tempered Carbon Steel	< 1	POOR	48 - 52	VERY HIGH
w/ Ceramic Coating	8	"	"	"
Carbon Steel	1	POOR	60 - 62	LOW
w/ TiN Coating	4	"	"	"
w/ Ceramic Coating	8	"	"	"
Heat Treated Stainless Steel*	2	VERY GOOD	48 - 58	MOD
w/ TiN Coating	6	"	"	"
w/ Ceramic Coating	10	"	"	"
Bi-Metal	8	FAIR	60 - 66	MOD
M2 High Speed Steel	8	FAIR	62 - 66	LOW-MOD
w/ TiN Coating	12	"	"	"
w/ Ceramic Coating	16	"	"	"
O1 Tool Steel	2	POOR	57 - 62	MOD
D2 Tool Steel	7	GOOD	57 - 61	LOW
A11 Tool Steel	50	FAIR	58 - 64	LOW-MOD
w/ Ceramic Coating	70	"	"	"
Tungsten Carbide	80	FAIR	75-80	LOW
w/ Boron Carbide Coating	90	"	"	"
w/ Diamond Coating	1300	"	"	"
Zirconia Ceramic	100	EXCELLENT	1300	VERY LOW

*Such as 420SS, RBSS

•The Wear Index is an approximate guide for how long a blade edge will last compared to a standard Carbon Steel blade. Blade wear also depends on the specific cutting application. In some instances a blade with a lower index will perform as well or better than one with a higher index.

Contact Us Today!

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