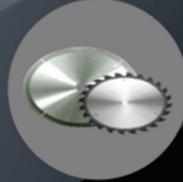




EDGEMILLS®



# Edgemills

PRECISION BLADE INDUSTRY  
PREFERRED PARTNER

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## About Edgemills

Edgemills is a U.S. based manufacturer of precision industrial blades, delivering high-performance cutting solutions for demanding industries. Founded by experienced engineers and machinists, Edgemills was established to solve common challenges such as inconsistent blade quality, short service life, and unreliable delivery timelines.

Our blades are engineered to become a critical part of your production process. By focusing on precision, durability, and consistency, we help our customers improve cutting accuracy, reduce downtime, and increase overall operational efficiency.



With in-house manufacturing and a customer-focused engineering approach, Edgemills provides both standard and custom blade solutions tailored to specific applications. From initial consultation to final delivery, we work closely with our clients to ensure reliable performance and long-term value

## What We Stand For

- Precision engineering
- Consistent quality
- Predictable lead times
- Customer-focused solutions



# Manufacturing Capabilities

Edgemills combines advanced engineering, precision machinery, and in-house manufacturing to deliver blades built for performance in the most demanding industrial environments. Every blade is engineered, machined, and finished to exacting standards so your production line never misses a beat.

## Key Processing Strengths

Advanced CNC equipment ensures every blade blank is machined to exact dimensions, with consistent geometry and tight tolerances to match your machine and material requirements. Blades undergo specialized heat treatment processes that enhance hardness and wear resistance, ensuring durability under high-stress cutting conditions. Precision grinding and edge honing produce ultra-sharp cutting edges tailored for specific applications — from slitting films to shearing metal. Optional coatings such as chromium or tungsten increase surface strength, reduce friction, enhance corrosion resistance, and extend operational life across high-speed and abrasive cutting tasks. Fast prototyping supports quick validation of custom blade designs, accelerating development cycles and reducing time-to-production.

Edgemills' process is built on engineering precision and repeatability, ensuring blades perform reliably under pressure, cut after cut.





## Trade Shows And Overseas Customers



# Quality Assurance & Materials

Edgemills understands that the materials used in blades directly impact performance, longevity, and reliability. That's why every blade is manufactured from carefully selected high-performance alloys and subjected to rigorous quality control throughout production.

## Material Excellence

Edgemills works with materials chosen for their edge retention, strength, wear resistance, and suitability for specific industrial cutting applications:

### 1- D2 Tool Steel:

Excellent wear resistance and strong edge retention for general cutting tasks.



### 2- M2 High-Speed Steel (HSS):

Superior heat resistance and toughness for heavy-duty operations.

### 3- Tungsten Carbide Grades:

Exceptional hardness and longest wear life for abrasive and high-volume cutting.

### 4- 300 & 400 Series Stainless Steel:

Corrosion-resistant options for food, medical, and moisture-prone environments.

### 5- CPM Specialty Steels (e.g., M4, A11):

Ultra-premium steels with uniform carbide distribution for extreme wear resistance.

Alloying elements such as carbon, vanadium, chromium, and cobalt are leveraged strategically to optimize hardness, wear resistance, edge stability, and corrosion resistance.



# Quality Assurance Standards



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Edgemills applies stringent quality controls to deliver blades you can trust:

- 1- Dimensional Verification:** Metrology tools confirm exact tolerance adherence.
- 2- Non-Destructive Testing: (NDT)** Detects internal flaws before blades leave the factory.
- 3- Mechanical Load Testing:** Validates performance under real-world stresses.



1. Part Number		2. Part Name		3. Serial/Lot Number		4. FAI Report				
PRT-MFG-237465		PLATE - LOWER								
Characteristic Accountability				Inspection / Test Results				Other Fields		
5. Char No.	6. Reference Location	7. Characteristic Designator	8. Requirement	8a. UoM	8b. Upper Limit	8c. Lower Limit	9. Results	10. Designed Tooling	11. Non-Conformance Number	14. Notes
1	LOWER PLATE - A2.PDF pg.1	Note	ANODIZE BLUE PER XYZ-50.				Pass			
2	LOWER PLATE - A2.PDF pg.1	Note	BREAK ALL SHARP EDGES TO .05				Marginal			
3	LOWER PLATE - A2.PDF pg.1	Note	INSPECT PER XHJ-5250.				Pass			
4	LOWER PLATE - A2.PDF pg.1	Linear Dimension	.325	in	0.345	0.305	0.327	Digital Calipers		
5	LOWER PLATE - A2.PDF pg.1	Linear Dimension	.618	in	0.638	0.598	0.617	Laser		
6	LOWER PLATE - A2.PDF pg.1	Linear Dimension	.680	in	0.700	0.660	0.680	CMM		
7	LOWER PLATE - A2.PDF pg.1	Linear Dimension	.750	in	0.770	0.730	0.751			
8	LOWER PLATE - A2.PDF pg.1	Linear Dimension	2.875	in	2.895	2.855	2.880	Digital Calipers		
9	LOWER PLATE - A2.PDF pg.1	Linear Dimension	3.206	in	3.209	3.202	3.209	Digital Calipers		
10	LOWER PLATE - A2.PDF pg.1	Linear Dimension	3.503 / 3.496	in	3.503	3.496	3.500			
The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.										
12. Prepared By										13. Date

This combination of premium materials and rigorous quality control ensures that every blade provides consistent performance, long service life, and minimal downtime — the hallmarks of Edgemills' commitment to industrial excellence.



## Knife-Equipped Cutting Machines



Cutting blades are primarily used for cutting paper, film, gold foil, silver foil, aluminum foil, copper foil, tape, and other materials that require minimal cutting resistance and high abrasion resistance. Depending on the application, precision cutting tools can achieve micron-level cutting accuracy.

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## Pipe Cutting Machine Knives



It is mainly used on pipe production lines, where the tool synchronizes with the pipe's linear speed and travels along the outer circumference while slowly rotating to cut through the pipe. This process is suitable for pipes made of paper, brass, aluminum, steel, and similar materials.

## Tire Cutting Blade Series

Tire cutting blades are primarily manufactured from tool steel, high-speed steel (HSS), and tungsten carbide alloys. The blade provides smooth, clean cuts with excellent edge retention and minimal wear, even when cutting rubber products with plastic residue or surface buildup.

Its unique combination of high wear resistance, heat resistance, strength, and cutting performance exceeds that of comparable products. After surface treatment and heat treatment, the blade remains sharp, resists abrasion, and delivers a long service life.



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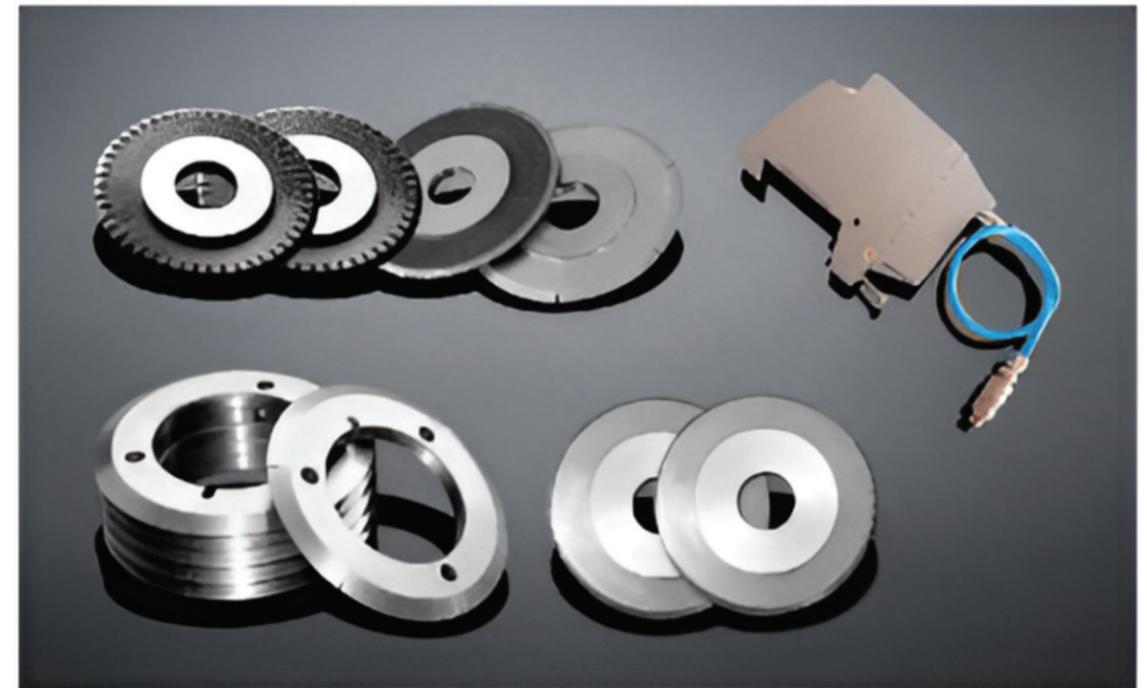


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## Rubber Round Knife Series

Rubber machinery blades, including disc-type blades and straight blades, are available in various designs such as toothed blades, flat circular knives, and strip knives. These blades offer sharp cutting edges, high wear resistance, and controlled hardness, making them suitable for cutting cord, plastic components, and nonwoven materials, with particular effectiveness in nonwoven applications.



## Pneumatic Knife Blade Series

These blades are used for slitting, perforating, and circular cutting operations, as well as for folding, sealing, and cut-off applications. Material options include 01 tool steel, D2 tool steel, M2 high-speed steel, and T1 high-speed steel, among others.



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### Fabric Bundle Cutting Blades

Name	Specification	OD(mm)	ID(mm)	Thickness (mm)	Material
Large flat garden blade	200 x 25.4 x 2.5	200	25.4	2.5	D2, HSS
	200 x 55 x 2	200	55	2	
	200 x 25.4 x 3	200	25.4	3	
	250 x 25 x 1.8	250	25	1.8	
	250 x 25.4 x 2.5	250	25.4	2.5	
	250 x 25.4 x 3	250	25.4	3	
	250 x 25 x 1.8	280	25	1.8	
	300 x 25 x 2.5	300	25.4	2.5	
	300 x 25.4 x 3	300	25.4	3	
	300 x 32 x 3	300	32	3	
	300 x 35.1 x 3	300	38.1	3	
	350 x 25.4 x 2.5	350	25	2.5	
	350 x 32 x 2.8/3	350	32	3	
	350 x 40 x 3	350	40	3	
	350 x 58 x 3	350	58	3	
	380 x 25.4 x 3	380	25.4	3/4	
	380 x 40 x 3/4	380	40	3/4	
	400 x 25.4 x 3/4	400	25.4	3/4	
400 x 55 x 3/4	400	58	3/4		
400 x 60 x 3/4	400	60	3/4		
450 x 25.4 x 3/4	450	25.4	3/5		
610 x 68.3 x 4.7/8	610	68.3	4.7/8		
450 x 25.4 x 35	450	25.4	3		

Our company's cutting blades are used for processing fabrics, nonwoven materials, tents, umbrellas, foam, leather, plastics, and other materials. Blade parallelism is controlled within 0.05 mm, ensuring concentric rotation with no runout. This precision produces clean, accurate cuts with consistent part formation and minimal burns

The above are part of our company's slitting blade product specifications and dimensions. Precision specifications can be processed according to drawings.



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Shredder Knives

### Shredding Machine Blades

The company uses high-quality tool steels such as AISI D2 and brazed tungsten carbide inserts to manufacture a wide range of cutting tools, including breaker knives, claw knives, two-and three-tooth claw cutters, spiral hobs,



Grinder Blades

low-speed shredder knives, and other complex, precision-shaped tools. These products are manufactured using specialized low-speed grinding processes and form a complete, integrated product line that is sold worldwide.

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Even Shaft Granulator  
Knives

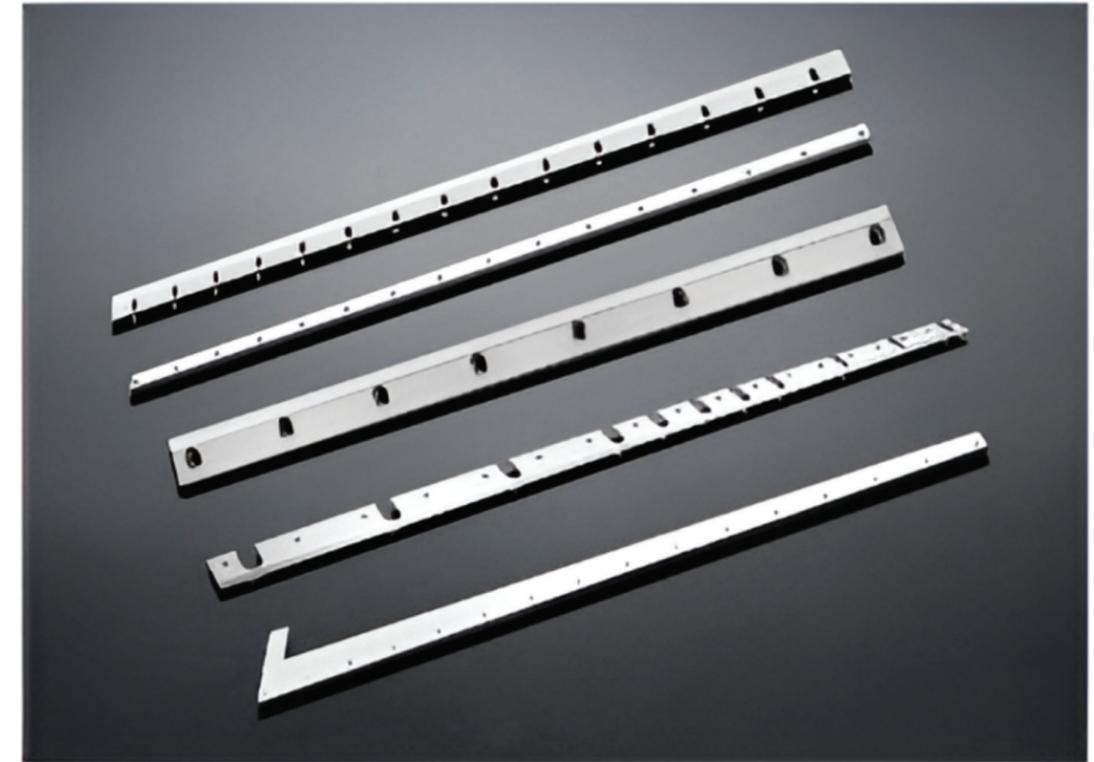
### Granulator Cutter Blades



Type 60 Alloy Hob with  
Carbide Inserts



Forage Crusher Blades



### High-Speed Steel & Tungsten Carbide Sealing Cutting Knives

These cutting tools are designed for the electronic circuit board (PCB) industry, including paper, film, and belt cutting applications, as well as copper and aluminum trimming, steel cutting shears, knives, and other PCB cutting operations

Manufactured using high-speed steel (HSS) inserts such as AISI M2 and AISI M7, along with brazed tungsten carbide inserts..





## Tungsten Carbide Circular Blades



Holed alloy steel knife



Fiber, ceramic machining tungsten carbide



Copper, plastic, glass product processing



Tool steel foil cutter fiber cutter series



Hood knife



Paper, cloth, board processing circular knives



Glass tobacco, film processing



Battery separator knife



## Food Packaging Toothed Blade

High-precision toothed blades with excellent flatness and cutting performance, suitable for processing strips of various shapes and sizes.

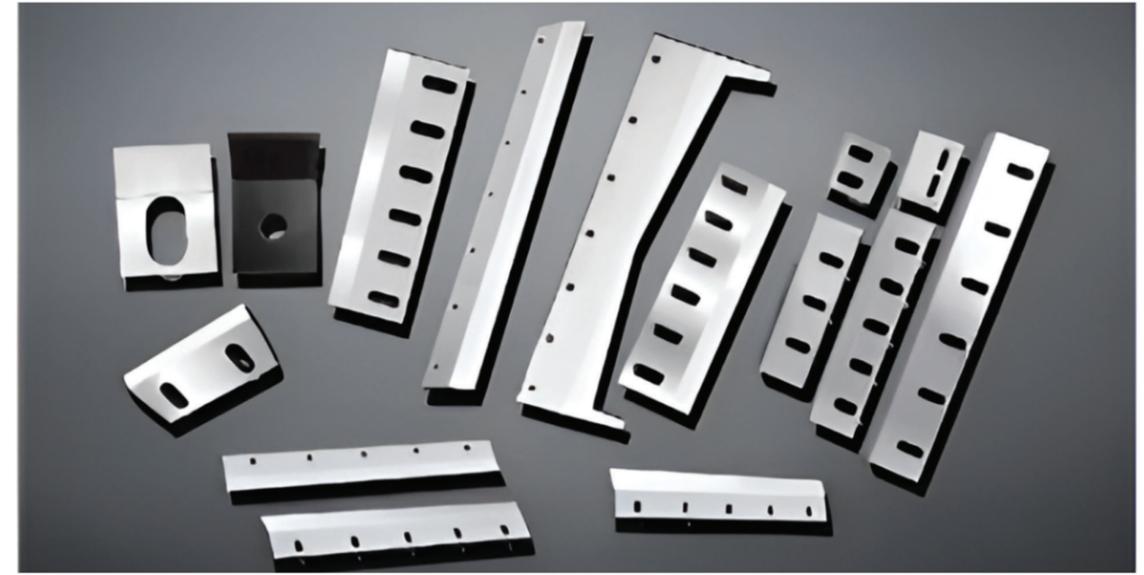
Materials: AISI 1065, SK5, AISI 440C, AISI 420, AISI D2, HSS (as required)

Applications: Food and candy packaging machines, sealing and cutting equipment, rotary presses, EPE foam cutters, and plastic and paper cutting machines.

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## Plastic Crusher Blade

Material: AISI W1 tool steel: AISI D2 tool steel  
AISI M2 HSS inserts,  
tungsten carbide inserts

Applications: Suitable for shredding and crushing plastics, rubber, paper, wood, food products, minerals, tires, PET, POM, BOPP, and ABS.

Features: Manufactured with tungsten carbide (TCT) inserts, AISI M2 high-speed steel, or AISI D2 tool steel. The use of high-quality insert tooling provides high hardness, excellent wear resistance, and cost-effective performance, making these blades ideal for plastic and rubber processing. Blade specifications are available per customer requirements.



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## Corrugated Box Industry Cutting Knives

Designed for the corrugated paper industry, including tungsten carbide circular slitting knives, long knives with solid or brazed carbide edges, and corrugator cutter knives.

A wide range of carbide circular knives is available, suitable slitting and cutting applications across corrugated board, paper and printing, rubber, plastic film, tobacco, textiles, electronic circuit board materials, and non-ferrous metals.

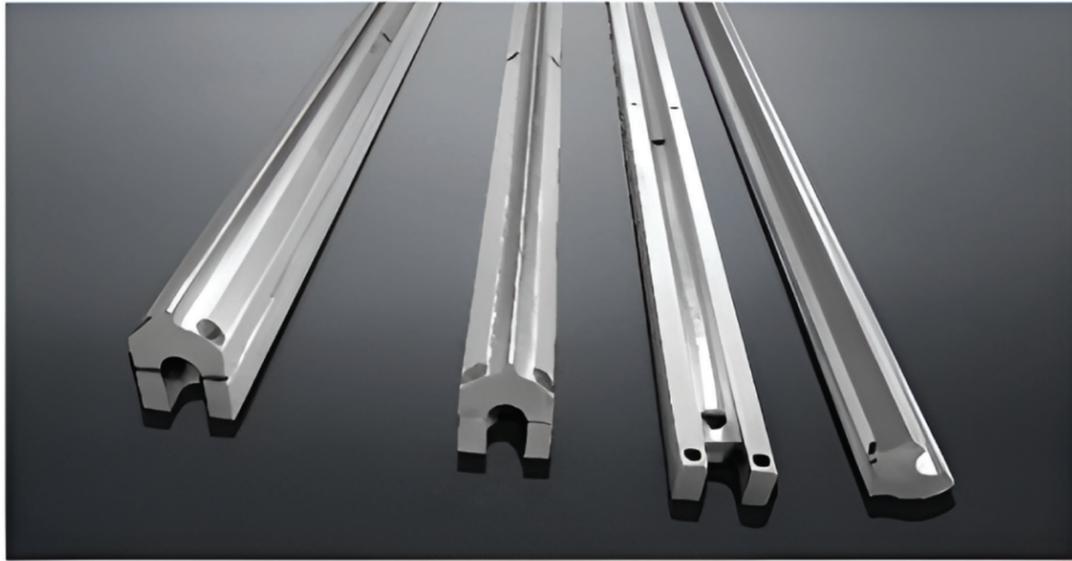


## Thermal Shrink Packaging Knives



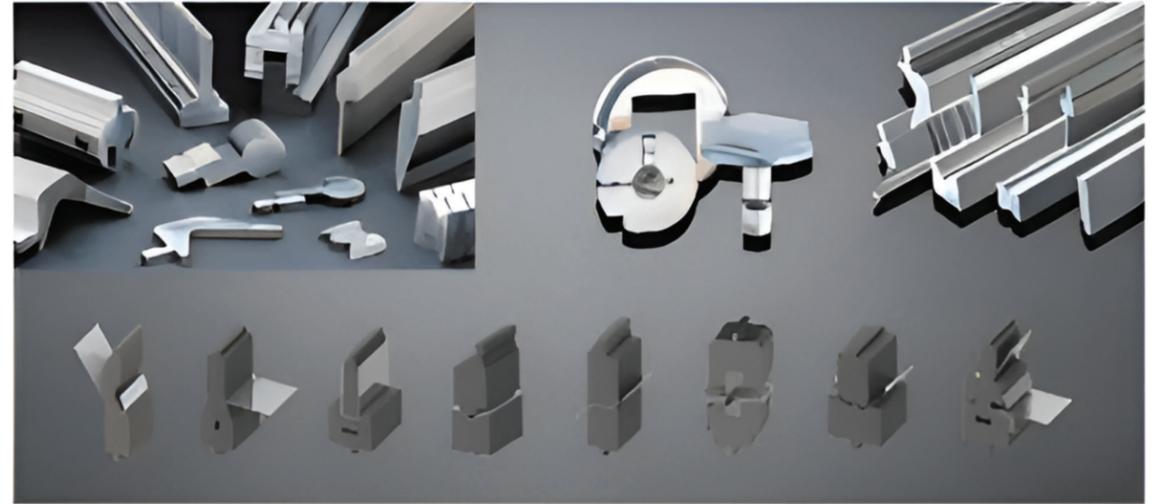
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## Shrink Film Coating Tool Die

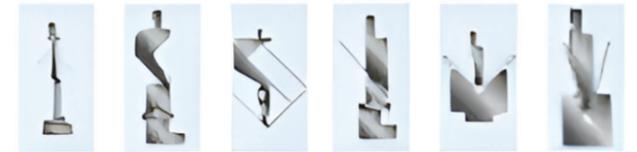


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## Bending Machine Dies



Our CNC bending machine dies are designed for steel pipe, rod, and profile bending, including round-form molds and multi-angle bending dies. We offer specialized production capabilities and select the optimal die design based on customer requirements to deliver fast lead times and high-quality results.

We also manufacture custom-purpose tooling, including bending dies up to six meters in length, elbow dies, knife-edge dies, angle dies (90°, 60°, 45°, 30°), R-radius dies, cylindrical dies, U-shaped dies, press bending dies, container molds, various support poles, and shearing blades. All tooling can be produced to customer drawings, with non-standard and custom designs available.

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## Slitting Blades

Disc shear blades are manufactured from high-quality tool steels and high-alloy steels, including AISI D2, AISI H13, AISI M2, and other premium grades. These blades deliver smooth cutting performance, sharp edges, and excellent wear resistance.

They are widely used for sheet metal slitting lines and slitting units. Our company produces circular shear blades up to 1.2 meters (47 in.) in diameter, as well as ultra-precision shear blades up to 0.5 meters (20 in.) in diameter, with parallelism controlled to within 0.002 mm (0.00008 in.).



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## T-Type Cutter Size



100°50\*16

82°54'1

1807562



221 72 2

210982440°C High and low teeth

150 105 1.5



220-1002 201002  
Double-sided teeth

315°50'3 440°C R

245°90\*3 HSS  
Double-sided face teeth



246\*110 HSS Double-sided face teeth

269832



300\*104\*2

Tetra Pak packaging machine toothed cutters

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## Dotted-Line Cutter



Our company specializes in blades for vertical form-fill-seal (VFFS) packaging machines, supplying many leading domestic manufacturers. These blades are designed to cut various types of food packaging bags and are available in multiple material grades, including SK5, AISI 440C, AISI D2, and AISI M2, to meet different performance requirements.

Manufactured using advanced CNC machining and precision tooth grinding, the blades deliver clean cuts, accurate bag formation, and burr-free edges. Standard products are kept in stock, while custom, non-standard blades can be produced according customer drawings.

Slim long-tooth perforation blades are available for cutting tear lines and are suitable for supermarket produce bags, paper bags, and woven bags, ensuring easy tearing while maintaining good package sealing.

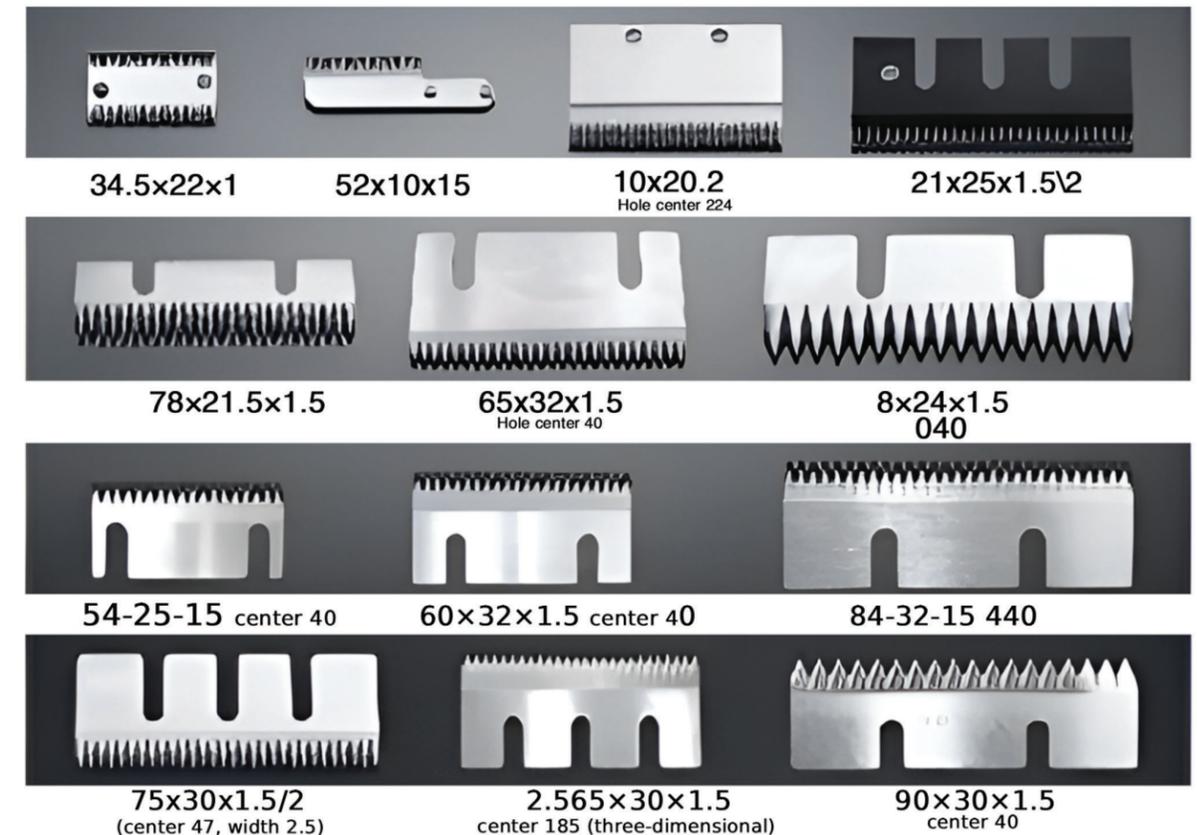
Common perforation specifications: 2.5, 0.5, 3.1, 5.2, and others.



## Sealer Blade Size

Our company is one of the largest and most specialized manufacturers of sealing machine blades, offering a full range of sizes and models available year-round. These sealing machine cutters are manufactured from high-speed steel (HSS) and produced using precision CNC tooth grinding.

The blade body is coated with DuPont™ Teflon®, providing corrosion resistance and preventing adhesive buildup during cutting. This coating reduces cutting drag, improves cut quality, and significantly increases blade efficiency and service life

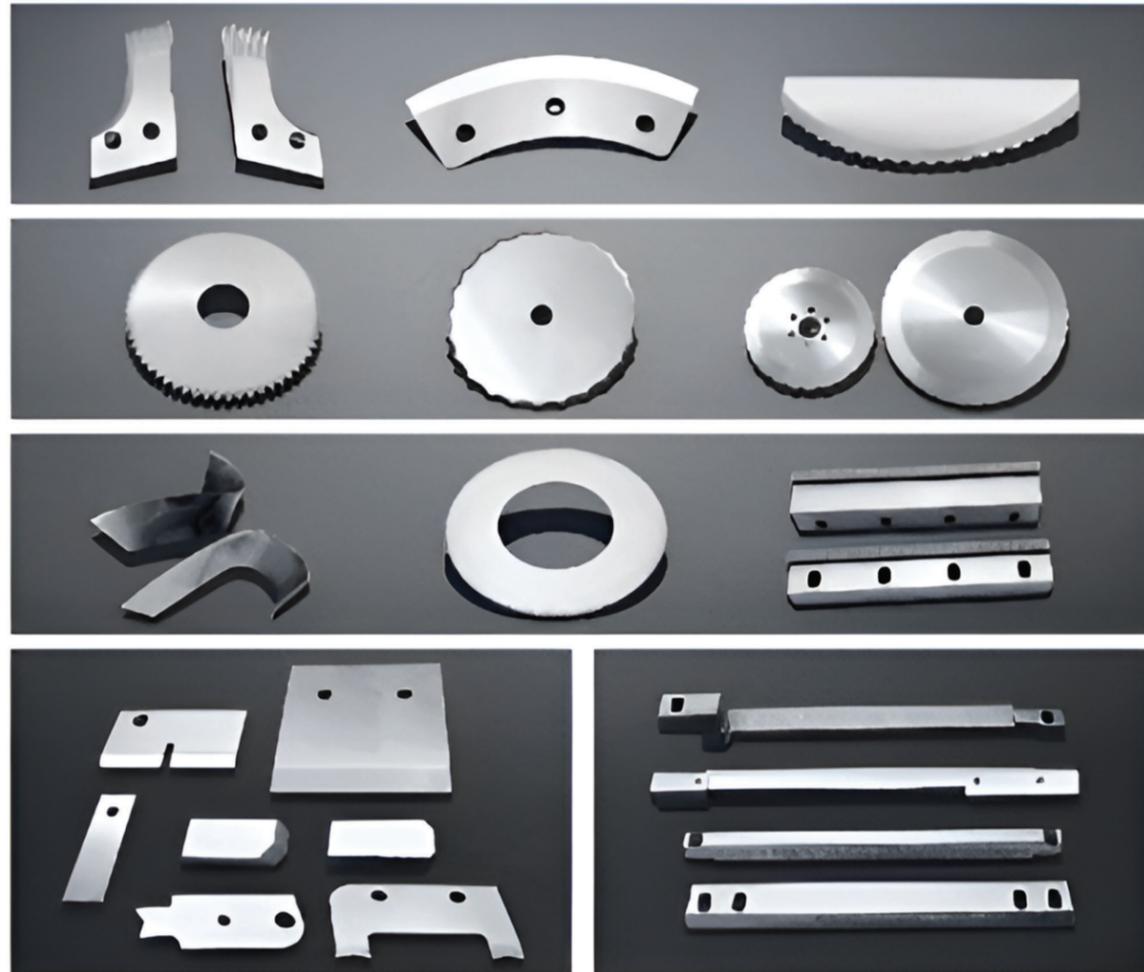


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## Special Shaped Blade Specifications

Manufactured from high-quality tool steels and alloy tool steels, these products are widely used in the food, meat processing, paper, and nonwoven fabric industries. Sample-based and custom processing are available.

Products include: chopping blades, pattern-cutting blades, instant noodle packaging knives, ham slicing knives, and related cutting tools.

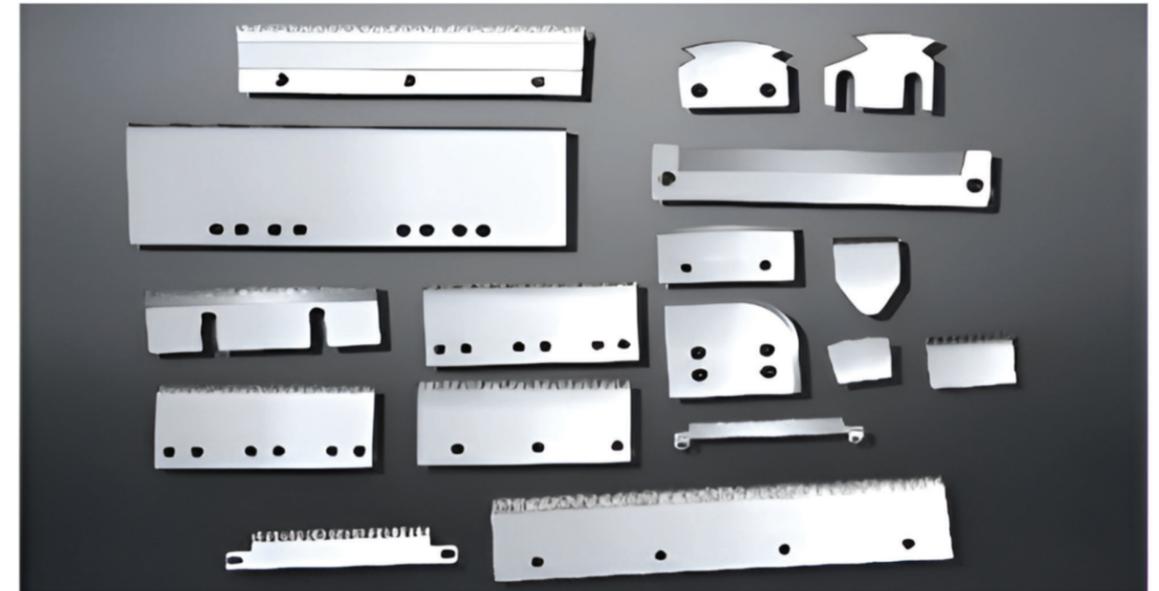


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## Diaphragm Cutter & Copper Cutter



Chestnut Peeling Blades



Bending Long-Tooth Blade

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## Packaging Saw Blade / Easy-Tear Knife



Manufactured from high-speed steel (HSS) and super-hard tool materials, these cutters deliver smooth cutting performance and extended service life. They are widely used in vertical form-fill-seal (VFFS) packaging machines and support domestic packaging machine manufacturers as a reliable replacement for imported blades.

Common Specifications:

14 70 x 8 x 4, 90 x 8 x 4, 117 x 10 x 4, 120 x 8 x 4, 135 x 9.9 x 3.8, 140 x 10 x 4, 200 x 4. 25 5

Custom, non-standard sizes are available upon request.



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## Stainless Steel Cutting Blades



## Jelly Cutter & Forming Blades



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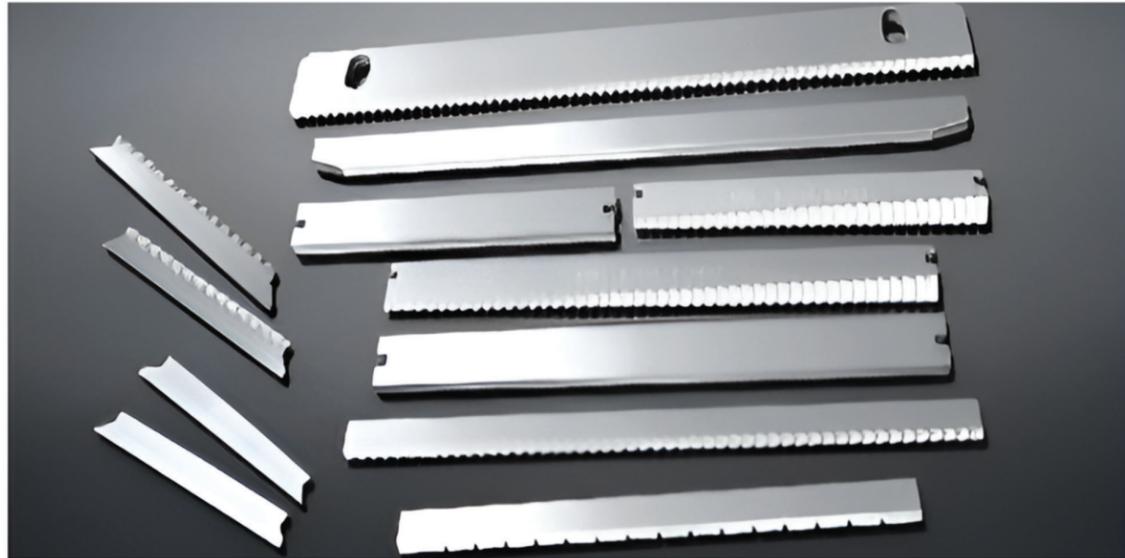
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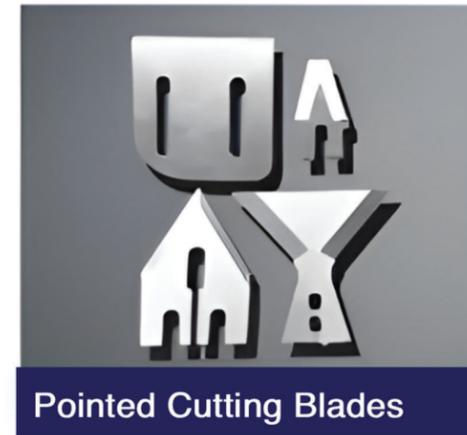
## Pillow-Pack Packaging Machine Cutter



## Vertical Pillow-Pack Sealing Machine Rolls



## Special-Shaped Packaging Machine Blades



Pointed Cutting Blades



Granulator Blades



Cast-Tooth Blades



Medical Cutting Blades



Tungsten Carbide-Inlaid  
Cutting Blades

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## Chopper Blades



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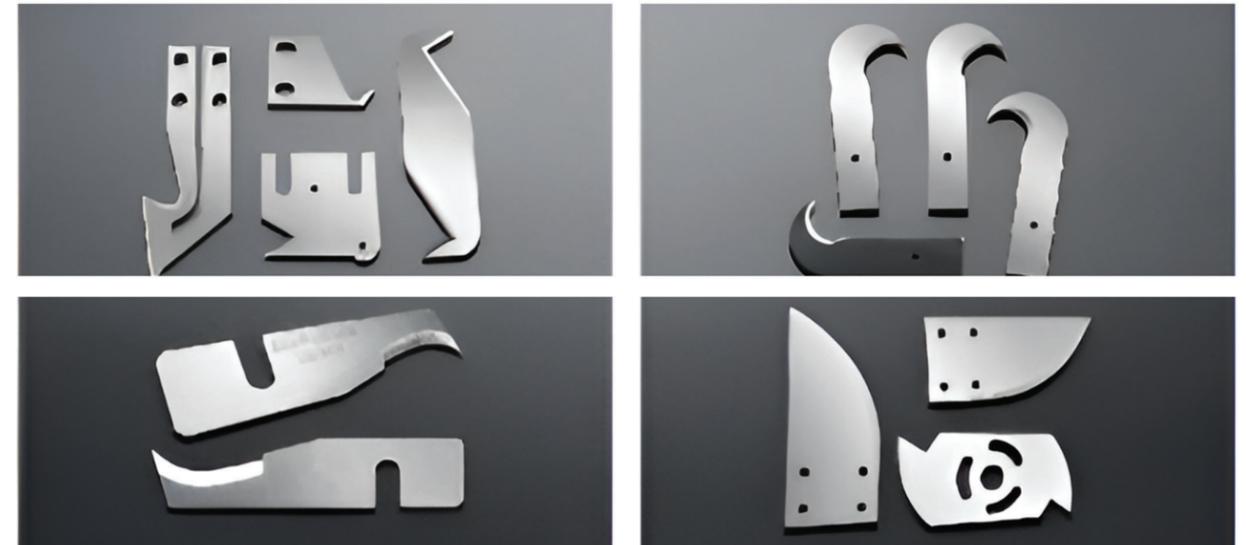
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## Multi-Profile Forming Cutter



## Special-Shaped Knife for Food, Packaging, and Rubber Applications

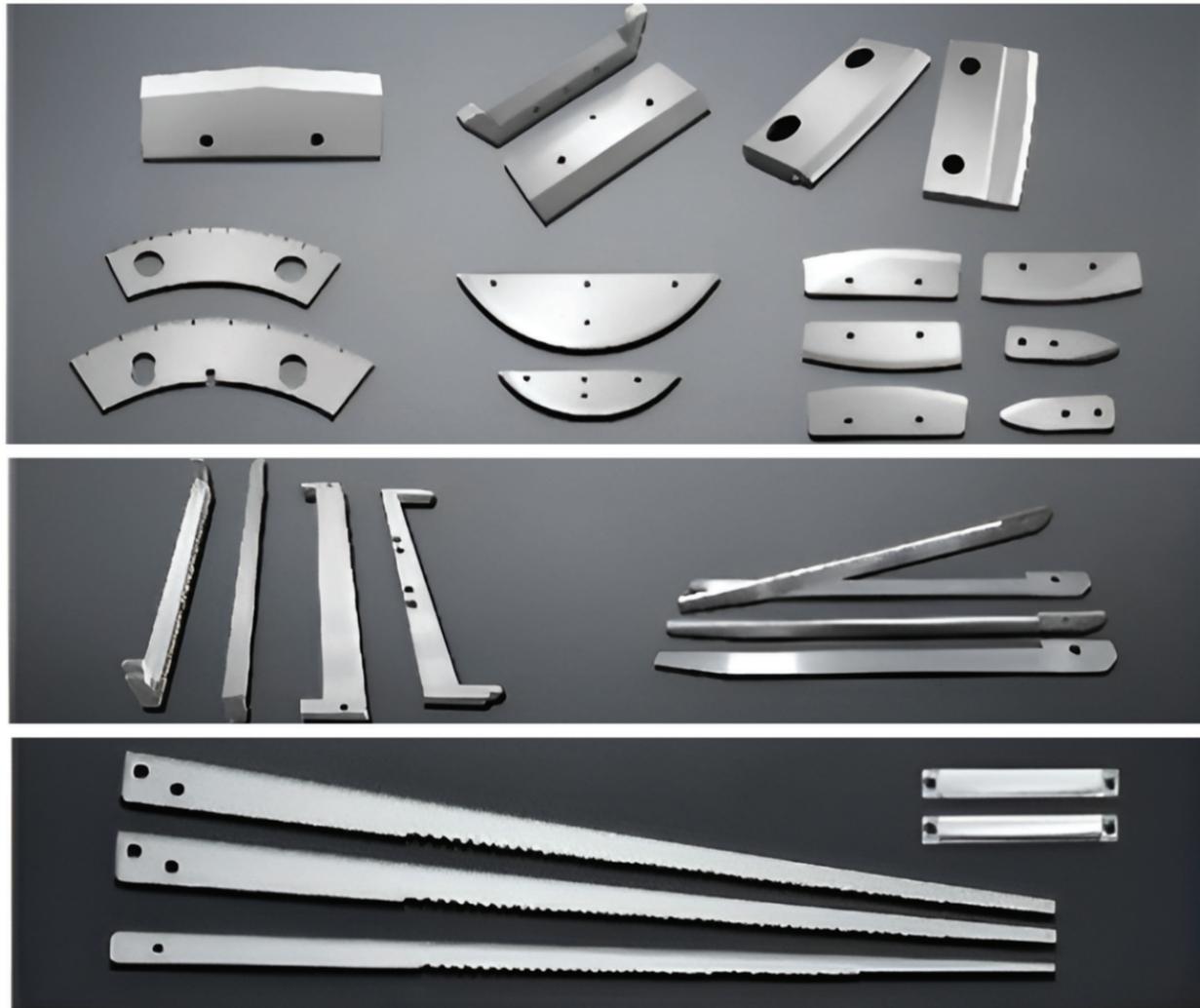


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## Special-Shaped Knife for Food, Packaging, and Rubber Applications



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## High-Speed Steel & Tungsten Carbide Sealing Cutting Knife



Edgemills Machine Blade Co. supplies pillow-pack and vertical packaging machine components, including sealing assemblies, molds, cutters, and knife holders, serving both domestic and international manufacturers. We maintain a year-round inventory of short standard products and provide custom manufacturing with short lead times.

Components are manufactured from RiSi W1 tool steel, RiSi 5140 alloy steel, and RiSi H13 tool steel, using precision heat treatment and protective surface coatings to ensure corrosion resistance and dimensional stability. Extra-long hot-cut blades are produced from steel to minimize heat distortion and deliver clean, accurate cuts.

Pillow-pack blades are made from RiSi M2 high-speed steel, heat treated to HRC 61-63, with CBN-polished teeth and flatness controlled within 0.01 mm. Standard sizes are in stock, and custom specifications are available with fast delivery.

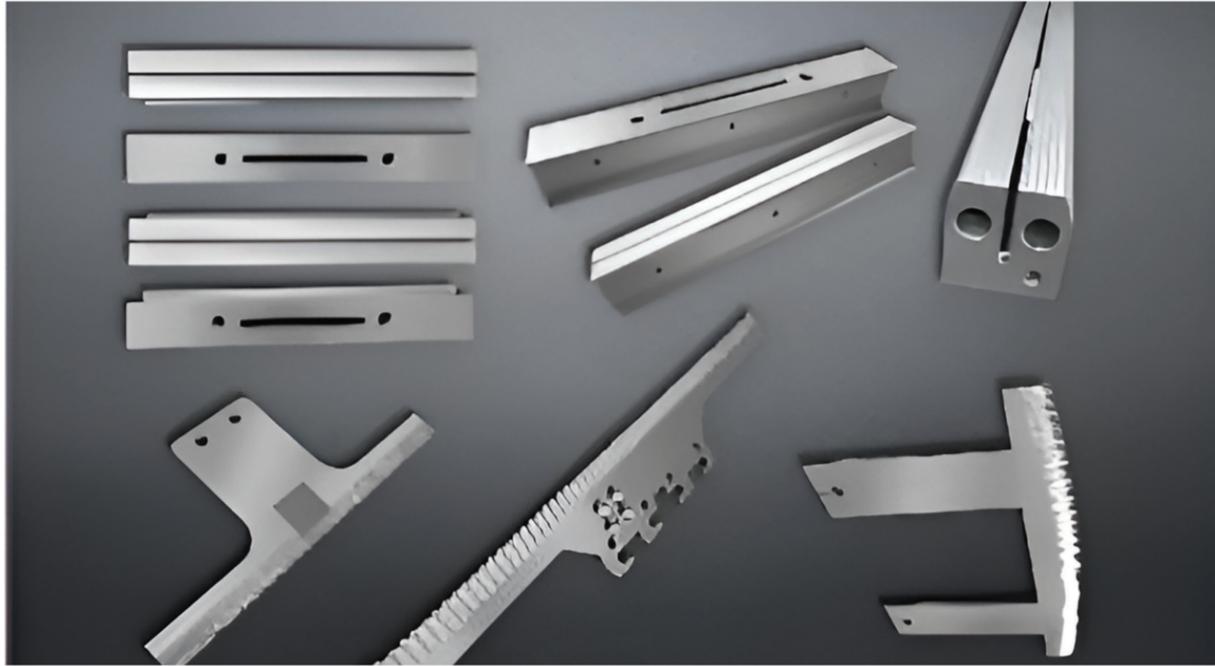


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## Custom Profile Cutting Knife for Food & Packaging



Edgemills Machine Blade Co. manufactures vertical packaging machine cutters produced from RiSi 1080/1095 high-carbon steel, RiSi 420 and RiSi 440 martensitic stainless steel, and high-speed steel (HSS). As industry requirements have become more demanding, we have increasingly adopted RiSi 420J2 and RiSi 440C stainless steels for precision-machined packaging cutters.

Blades undergo controlled heat treatment to achieve a hardness of HRC 54-59, followed by surface finishing to provide excellent corrosion resistance, even in humid or corrosive environments. Blades are manufactured using high-precision grinding and wire EDM, with final tooth finishing performed using CBN grinding wheels. The result is a blade that is sharp, dimensionally accurate, easy to adjust, wear-resistant, and long-lasting, reducing replacement frequency and improving overall machine performance.

Standard tooth profiles include 3 x 3.5 or 4 x 4 reverse-bevel designs, forming a clean Y-shaped perforation for easy tearing.

Our cutters are compatible with many major vertical packaging machine manufacturers. Because cutter and holder dimensions may vary by machine model and production batch, customers are encouraged to provide samples or drawings to ensure proper fit. Pricing may vary depending on size and material selection. Please contact our sales team for detailed quotations and technical support.



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Your Trusted Partner in Precision Blade Manufacturing

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Houston, Texas, USA

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**Edgemills Machine Blade Co., Inc.**

