INDUSTRIAL SLITTING

CATALOG 2026

INDUSTRIAL SLITTING

PERSISTOOLS

WHAT ENABLES OUR QUALITY TO REMAIN UNBEATABLE.

MULTIPLE MATERIAL OPTIONS

WE OFFER A COMPREHENSIVE RANGE OF MATERIALS TO SUIT YOUR SPECIFIC APPLICATION: SOLID TUNGSTEN CARBIDE, TCT (TUNGSTEN CARBIDE TIPPED), AND HIGH-SPEED STEEL (HSS). EACH MATERIAL IS SELECTED TO BALANCE WEAR RESISTANCE, TOUGHNESS, AND BUDGET.

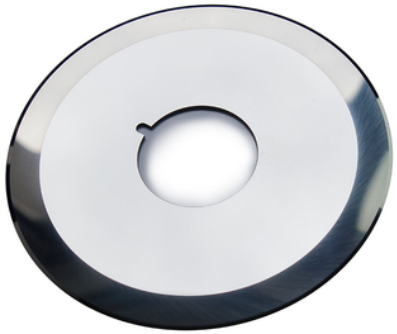
UNMATCHED CUSTOMIZATION CAPABILITIES

EVERY SLITTING PROCESS IS UNIQUE. WE SPECIALIZE IN CUSTOM-MADE BLADES TO MEET YOUR EXACT REQUIREMENTS:

- *LARGE DIAMETER: UP TO 800MM FOR ROTARY SLITTING.*
- *EXTRA LENGTH: UP TO 2.8M FOR STRAIGHT SHEARING AND SLITTING.*

COST-EFFECTIVE PERFORMANCE

IN AN ERA OF RISING RAW MATERIAL COSTS, WE PROVIDE HIGH-PERFORMANCE SOLUTIONS WITHOUT THE PREMIUM PRICE TAG. BY OPTIMIZING OUR SUPPLY CHAIN AND PRODUCTION EFFICIENCY, WE ENSURE YOU GET THE BEST ROI (RETURN ON INVESTMENT).



TECHNICAL EXCELLENCE

PRECISION IS NOT AN OPTION, IT'S A STANDARD.

HIGH-PRECISION CNC GRINDING

ALL SLITTING KNIVES ARE PROCESSED BY ADVANCED CNC GRINDING MACHINES TO ENSURE TIGHT TOLERANCES (UP TO ±0.002MM), EXCELLENT PARALLELISM, AND A MIRROR-LIKE FINISH, REDUCING DUST AND BURRS DURING THE SLITTING PROCESS.

STABLE PERFORMANCE & EXTENDED LIFE

OUR SPECIALIZED HEAT TREATMENT AND EDGE GEOMETRY OPTIMIZATION ENSURE STABLE CUTTING PERFORMANCE EVEN IN HIGH-SPEED OPERATIONS, SIGNIFICANTLY REDUCING DOWNTIME FOR BLADE CHANGES.

INDUSTRY APPLICATIONS

CHOOSE THE RIGHT BLADE FOR YOUR SPECIFIC INDUSTRY:

CORRUGATED & PACKAGING

THIN BLADES FOR CLEAN SLITTING WITHOUT CRUSHING.

BATTERY SEPARATOR FILM:

ULTRA-SHARP EDGES FOR DELICATE MICRO-SLITTING.

TOBACCO PROCESSING

HIGH-WEAR RESISTANCE FOR CONTINUOUS HIGH-SPEED PRODUCTION.

METAL & FOIL SLITTING

HEAVY-DUTY BLADES FOR PRECISION SHEARING.

PERSISTOOLS

MATERIAL EXCELLENCE: THE CORE OF PERFORMANCE

Material Type	Hardness (HRA/HRC)	Wear Resistance	Toughness	Typical Applications
Solid Carbide	89 - 93 HRA	★★★★★	★★☆☆☆	Thin film, Battery foil, Tobacco
TCT (Brazed)	86 - 91 HRA	★★★★☆	★★★☆☆	Corrugated board, Paper, Plastic
HSS (High Speed Steel)	62 - 66 HRC	★★☆☆☆	★★★★★	Metal shearing, Heavy packaging

Key Highlights:

- Tungsten Carbide: Ultra-fine grain structure for extreme edge sharpness.
- TCT: Economical balance of carbide performance with a shock-resistant steel body.
- HSS: Maximum impact resistance for heavy-duty or interrupted cutting.

APPLICATION GUIDE: MATCHING MATERIAL TO TASK

Need ultra-clean cuts without dust?

- Choose Solid Carbide for its superior edge retention.

Dealing with high-impact or thick materials?

- HSS or TCT provides the necessary toughness to prevent chipping.

Frequent blade changes costing too much?

- Upgrade to our Premium Micro-Grain Carbide for 3x longer life.

TECHNICAL NOTES FOR SLITTING

Edge Geometry

- Custom rake and clearance angles are ground to ±0.5° to match your material's shear strength.

Mirror Finish

- We offer Ra < 0.2μm surface finish to reduce material buildup on the blade side.

Stability

- For blades up to 2.8m, our specialized heat treatment ensures zero warping.


wear defenders


wear protective gloves


wear safety glasses

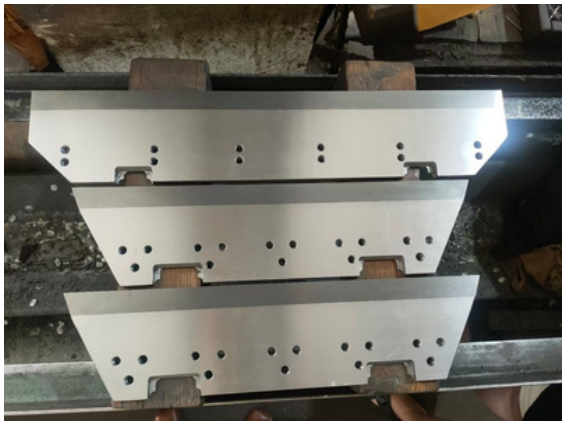

wear protective mask


read instructions

SLITTER/CUT-OFF KNIVES

CUSTOM SIZES AVAILABLE UPON REQUEST. MATERIALS CAN BE CUSTOMIZED TO TCT OR HSS BASED ON YOUR APPLICATION NEEDS.

No	Size	Material Option	Teeth/Type
01	2540 x 30 x 8 mm	TCT (Carbide Tipped)	Double Teeth
02	2240 x 32 x 8 mm	HSS (High Speed Steel)	Double Teeth
03	2840 x 30 x 8 mm	TCT (Carbide Tipped)	Double Teeth
04	2825 x 30 x 8 mm	TCT (Carbide Tipped)	Double Teeth
05	1941 x 38 x 10 mm	HSS (High Speed Steel)	Standard
06	2330 x 38 x 10 mm	TCT (Carbide Tipped)	Standard
07	2591 x 38 x 10 mm	HSS (High Speed Steel)	Standard
08	2890 x 38 x 10 mm	TCT (Carbide Tipped)	Standard
09	1690 x 41 x 8 mm	HSS (High Speed Steel)	Standard
10	1890 x 39 x 8 mm	HSS (High Speed Steel)	Standard
11	2090 x 42 x 8 mm	TCT (Carbide Tipped)	Standard
12	2290 x 42 x 8 mm	TCT (Carbide Tipped)	Standard
13	1973 x 31.8 x 9.6 mm	TCT (Carbide Tipped)	Upper Knife
14	1973 x 31 x 7.9 mm	HSS (High Speed Steel)	Bottom Knife

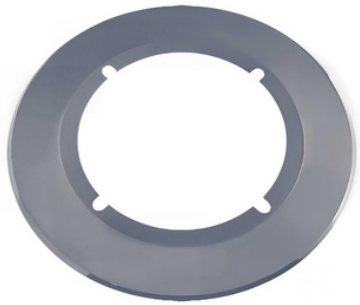


CORRUGATED SLITTING CIRCULAR KNIVES

CUSTOM SIZES AVAILABLE UPON REQUEST. MATERIALS CAN BE CUSTOMIZED TO CARBIDE OR HSS BASED ON YOUR APPLICATION NEEDS.

No.	Specification (OD * ID * T)	Holes / Slots	Compatible Machine	Material Option
1	240 * 32 * 1.2 mm	2 x Φ 8.5 mm	BHS	Solid Carbide
2	240 * 32 * 1.3 mm	2 x Φ 8.5 mm	BHS	Solid Carbide
3	230 * 135 * 1.1 mm	4 Key Slots	Fosber	Solid Carbide
4	230 * 135 * 1.1 mm	6 x Φ 9 mm	Fosber	HSS (High Speed Steel)
5	230 * 135 * 1.1 mm	NONE	Fosber	Solid Carbide
6	257 * 135 * 1.1 mm	NONE	Fosber	Solid Carbide
7	291 * 203 * 1.1 mm	6 x Φ 8.5 mm	Fosber	HSS (High Speed Steel)
8	220 * 115 * 1.0 mm	3 x Φ 9 mm	Agnati	Solid Carbide
9	240 * 115 * 1.0 mm	NONE	Agnati	Solid Carbide
10	270 * 168.2 * 1.2 mm	8 x Φ 10.5 mm	Hsieh Hsu	Solid Carbide
11	280 * 160 * 1.1 mm	6 x Φ 7.5 mm	Mitsubishi	HSS (High Speed Steel)
12	230 * 110 * 1.3 mm	NONE	Kaituo	Solid Carbide
13	200 * 122 * 1.3 mm	NONE	Justu	Solid Carbide
14	260 * 168.3 * 1.2 mm	NONE	Marquip	Solid Carbide



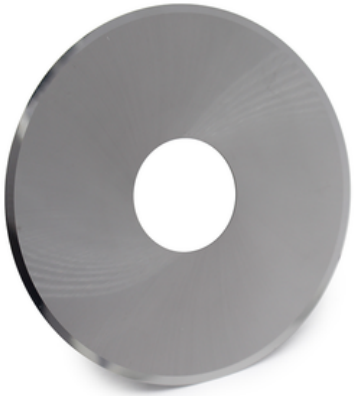



ALL KNIVES ARE MIRROR-POLISHED TO ENSURE MINIMAL DUST AND CLEAN SLITTING EDGES. CUSTOM COATING (LIKE DLC OR TEFLON) IS AVAILABLE FOR SPECIAL STICKY MATERIALS."

TOBACCO & FILTER SLITTING KNIVES

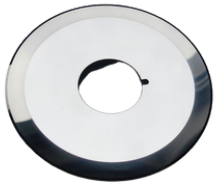
SUITABLE FOR HIGH-SPEED CIGARETTE MAKING MACHINES (SUCH AS HAUNI, MOLINS, GD ETC.).

No.	Specification (OD * ID * T mm)	Material Option
1	60 * 19 * 0.27 mm	Solid Carbide
2	61 * 19.05 * 0.3 mm	Solid Carbide
3	63 * 15 * 0.3 mm	Solid Carbide
4	64 * 19.05 * 0.3 mm	HSS (High Speed Steel)
5	85 * 16 * 0.25 mm	Solid Carbide
6	89 * 15 * 0.38 mm	Solid Carbide
7	100 * 15 * 0.2 mm	Solid Carbide
8	100 * 15 * 0.3 mm	Solid Carbide
9	100 * 15 * 0.35 mm	Solid Carbide
10	100 * 15 * 0.4 mm	HSS (High Speed Steel)
11	100 * 16 * 0.3 mm	Solid Carbide
12	100 * 16 * 0.2 mm	Solid Carbide
13	100 * 45 * 0.2 mm	Solid Carbide
14	110 * 22 * 0.5 mm	Solid Carbide
15	140 * 46 * 0.5 mm	Solid Carbide



REWINDER SLITTING KNIVES

TOP SLITTING KNIVES



No.	Specification (OD * ID * T mm)	Bevel (刃角)	Material Option
1	120 * 65 * 1.2 mm	30°	HSS (High Speed Steel)
2	100 * 20 * 1.8 mm	14°	Solid Carbide
3	100 * 20 * 1.5 mm	18°	HSS (High Speed Steel)
4	105 * 24 * 1.0 mm	30°	HSS (High Speed Steel)
5	120 * 55 * 1.0 mm	32°	Solid Carbide
6	102 * 22 * 0.5 mm	6°	HSS (High Speed Steel)
7	80 * 32 * 1.0 mm	25°	HSS (High Speed Steel)
8	90 * 42 * 2.0 mm	35°	Solid Carbide
9	90 * 43.1 * 1.0 mm	30°	HSS (High Speed Steel)
10	100 * 25.4 * 1.3 mm	24°	HSS (High Speed Steel)

BOTTOM SLITTING KNIVES



No.	Specification (OD * ID * T mm)	Type / Side	Material Option
11	130 * 100 * 48 mm	Type A / Double	TCT (Carbide Tipped)
12	73 * 35 * 18 mm	Type A / Single	HSS (High Speed Steel)
13	75 * 30 * 17.5 mm	Type A / Single	TCT (Carbide Tipped)
14	105 * 90 * 10 mm	Type A / Single	TCT (Carbide Tipped)
15	60 * 30 * 10 mm	Type B / Single	HSS (High Speed Steel)
16	180 * 150 * 50 mm	Type B / Single	TCT (Carbide Tipped)
17	170.5 * 135 * 12.5 mm	Type A / Single	TCT (Carbide Tipped)
18	280 * 240 * 70 mm	Type A / Double	TCT (Carbide Tipped)
19	190 * 138 * 15 mm	Type A / Double	TCT (Carbide Tipped)
20	250 * 188 * 15 mm	Type A / Double	TCT (Carbide Tipped)

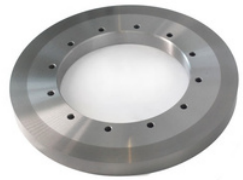
METAL SLITTING SHEARS (ROTARY SLITTING KNIVES)

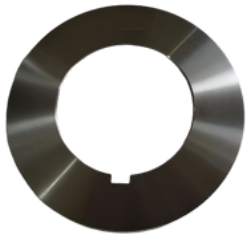
CUSTOM SIZES AVAILABLE UPON REQUEST. MATERIALS CAN BE CUSTOMIZED TO TCT OR HSS BASED ON YOUR APPLICATION NEEDS.

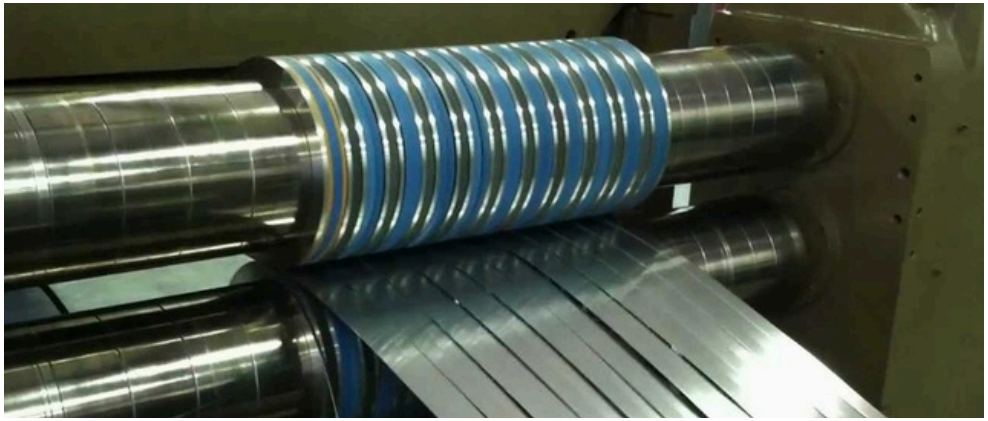
No.	Specification (OD * ID * T mm)	Design Type	Material Option
1	150.1 * 125 * 10 mm	Full Circle	TCT (Carbide Tipped)
2	160 * 55 * 10.1 mm	Full Circle	HSS (High Speed Steel)
3	160.5 * 90 * 52 mm	Segmented (1/2)	TCT (Carbide Tipped)
4	160.5 * 100 * 52 mm	Segmented (1/2)	TCT (Carbide Tipped)
5	160.5 * 110 * 52 mm	Segmented (1/4)	TCT (Carbide Tipped)
6	175.5 * 110 * 60 mm	Segmented (1/2)	TCT (Carbide Tipped)
7	180 * 75 * 10 mm	Full Circle	HSS (High Speed Steel)
8	181 * 109 * 10.1 mm	Full Circle	TCT (Carbide Tipped)
9	198.5 * 120 * 66 mm	Segmented (1/2)	TCT (Carbide Tipped)
10	200 * 110 * 30 mm	Full Circle	TCT (Carbide Tipped)
11	200.5 * 128 * 75 mm	Segmented (1/2)	TCT (Carbide Tipped)
12	201 * 135 * 10 mm	Full Circle	HSS (High Speed Steel)
13	201.6 * 110 * 8 mm	Full Circle	TCT (Carbide Tipped)

AVAILABLE IN SEMI-CIRCLE (1/2) AND QUARTER-CIRCLE (1/4) DESIGNS.

- *FASTER REPLACEMENT: CHANGE BLADES WITHOUT REMOVING THE ENTIRE ARBOR, SIGNIFICANTLY REDUCING MACHINE DOWNTIME.*
- *COST-EFFICIENT: OPTIMIZED MATERIAL USAGE AND EASIER MAINTENANCE COMPARED TO SOLID RINGS.*







INDUSTRIAL RAZOR BLADES (SEPARATOR SLITTING)

No.	Specification	Hole / Slot Type	Material Option
1	43 * 22 * 0.1 mm	3-Hole / Slotted	Solid Carbide
2	43 * 22 * 0.15 mm	3-Hole / Slotted	Solid Carbide
3	43 * 22 * 0.2 mm	3-Hole / Slotted	Solid Carbide
4	43 * 22 * 0.3 mm	3-Hole (Classic)	Solid Carbide
5	43 * 22 * 0.4 mm	3-Hole / Slotted	HSS (High Speed Steel)
6	60 * 22 * 0.2 mm	Long Slot (Kidney)	Solid Carbide
7	60 * 22 * 0.3 mm	Long Slot (Kidney)	Solid Carbide
8	60 * 22 * 0.4 mm	Long Slot (Kidney)	Solid Carbide
9	38 * 8 * 0.25 mm	No Hole	Solid Carbide
10	57 * 19 * 0.2 mm	2-Hole / 3-Hole	HSS (High Speed Steel)
11	57 * 19 * 0.4 mm	3-Hole	Solid Carbide
12	57 * 19 * 0.6 mm	3-Hole	Solid Carbide
13	59 * 19 * 0.4 mm	Slotted	HSS (High Speed Steel)
14	39.5 * 19.5 * 0.25 mm	Custom Hole	Solid Carbide
15	22.99 * 5.0 * 1.0 mm	Special Mini	Solid Carbide

ULTRA-SHARP EDGE

- *RAZOR-SHARP PRECISION: ENGINEERED FOR HIGH-SPEED SLITTING OF ULTRA-THIN MATERIALS LIKE LITHIUM-ION BATTERY SEPARATORS, ADHESIVE TAPES, AND FLEXIBLE PACKAGING FILMS.*

FLEXIBLE CONFIGURATIONS

- *MULTI-HOLE COMPATIBILITY: AVAILABLE IN 3-HOLE, SINGLE-HOLE, SLOTTED, AND "KIDNEY" HOLE DESIGNS TO FIT VARIOUS INDUSTRIAL BLADE HOLDERS.*

OPTIONAL COATING

- *EXTENDED LIFE: CERAMIC OR TIN COATING OPTIONS ARE AVAILABLE TO REDUCE FRICTION AND EXTEND THE SERVICE LIFE WHEN CUTTING ABRASIVE MATERIALS.*



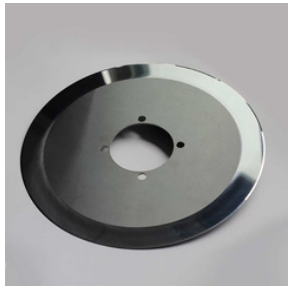

CHEMICAL FIBER & STAPLE FIBER CUTTING BLADES

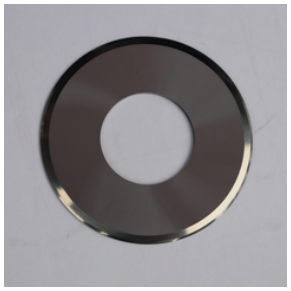
No.	Specification (L * W * T mm)	Radius / Angle	Material Option
1	95 * 19 * 0.9 mm	1°	Solid Carbide
2	74.5 * 15.5 * 0.88 mm	-	Solid Carbide
3	135.5 * 19.05 * 1.4 mm	-	Solid Carbide
4	140 * 19 * 0.884 mm	-	Solid Carbide
5	61.4 * 19.05 * 0.254 mm	-	Solid Carbide
6	74.5 * 15.7 * 0.88 mm	R1.6	Solid Carbide
7	74.6 * 15.6 * 0.88 mm	-	Solid Carbide
8	95 * 19 * 0.88 mm	R1.6	Solid Carbide
9	117.6 * 15.6 * 0.88 mm	24° 2-4.2x45°	Solid Carbide
10	117.5 * 15.6 * 0.884 mm	-	Solid Carbide
11	118 * 19 * 1.4 mm	-	Solid Carbide
12	135 * 19 * 0.9 mm	-	Solid Carbide
13	135 * 19 * 1.4 mm	-	Solid Carbide
14	140 * 19 * 1.4 mm	-	Solid Carbide
15	150 * 19 * 1.4 mm	-	Solid Carbide
16	155 * 19 * 1.4 mm	-	Solid Carbide
17	170 * 19 * 0.88 mm	-	Solid Carbide
18	177.5 * 15.6 * 0.884 mm	-	Solid Carbide
19	190 * 19 * 0.9 mm	-	Solid Carbide
20	193 * 18.9 * 0.884 mm	17°	Solid Carbide

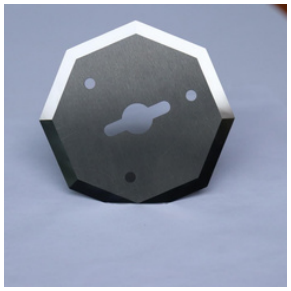
- *COMPATIBLE SYSTEMS: PRECISION ENGINEERED FOR GLOBAL LEADING FIBER MACHINERY INCLUDING OERLIKON BARMAG, OERLIKON NEUMAG, FLEISSNER, DM&E, ZIMMER, LUMMUS, AND MORE.*
- *OPTIMIZED FOR SYNTHETIC FIBERS: IDEAL FOR HIGH-SPEED CUTTING OF REGENERATED FIBERS, SYNTHETIC FIBERS, STAPLE FIBERS, AND HIGHLY ABRASIVE FIBERGLASS.*
- *HIGH-CONSISTENCY CUTTING: MANUFACTURED FROM ULTRA-FINE GRAIN CARBIDE TO ENSURE UNIFORM FIBER LENGTH AND SIGNIFICANTLY REDUCE HEAT BUILDUP DURING CONTINUOUS PRODUCTION.*

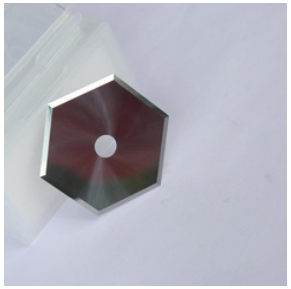
VISUAL GALLERY

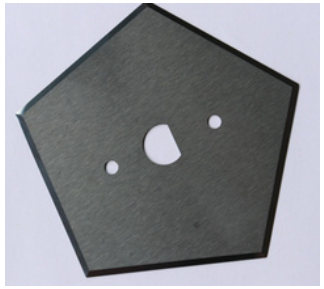
BEYOND STANDARDS: TAILORED FOR YOUR NEEDS











WHETHER IT'S A UNIQUE GEOMETRY, A SPECIFIC MATERIAL GRADE, OR A COMPLEX APPLICATION, WE PROVIDE FULLY CUSTOMIZED SLITTING SOLUTIONS TAILORED TO YOUR EXACT BLUEPRINTS. FROM PROTOTYPE TO MASS PRODUCTION, YOUR CHALLENGES ARE OUR SPECIALTY.

NEED SPECIAL SIZES OR TESTING SAMPLES?

WE'RE HERE TO HELP — CONTACT US TO DISCUSS YOUR REQUIREMENTS.

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