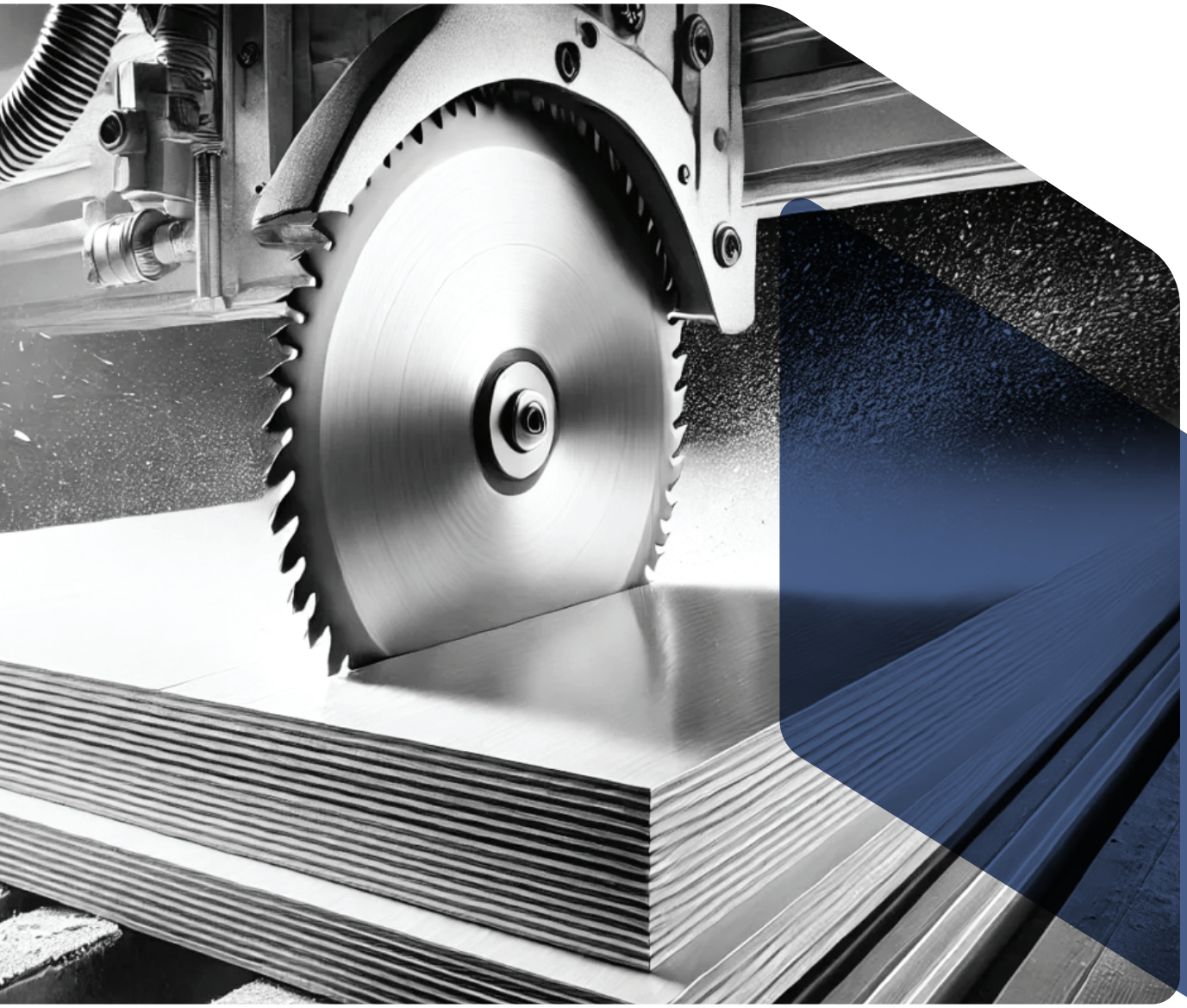
KENOSIS
CARBIDE COMPONENTS

Precision Engineering for Superior Cutting Performance

www.kenosiscarbide.com

CRAFTED WITH PRECISION, DRIVEN BY PERFORMANCE

Engineering trust and precision
through every tool we craft.



About Us

Since our founding, Kenosis Carbide Components has consistently exceeded industry standards, establishing a reputation as a trusted manufacturer of superior-quality Solid Carbide Cutting Tools. Backed by over 20 years of experience in the cutting tool industry, we bring unmatched expertise to every project. In every component we create, we strive for unprecedented precision, innovation, and durability, ensuring performance that our customers can rely on.

With sophisticated machinery and a rigorous quality methodology, we operate from Rajkot, Gujarat, India, a modern, technologically advanced facility.For the most demanding applications, every product leaving our plant is a guarantee of high-performance, exceptional durability, and optimum cutting efficiency.

Why Choose Kenosis Carbide Components?

➔ **Premium Carbide Core :**
We use solid tungsten carbide for unmatched hardness and wear resistance, ensuring maximum tool life even in high-speed and abrasive conditions.

➔ **Vast Geometry Range :**
Each tool is designed to match your operation, geometry, coating, and tolerance, built to exact need.

➔ **The Kenosis Standard :**
Every batch undergoes multi-stage testing for dimensional accuracy and cutting balance.

➔ **Customisation First :**
From slitting to T-slot machining — Kenosis provides a comprehensive cutting solution from one source for all your cutting needs.

Customised Solid Carbide Cutters

When off-the-shelf tools don't meet your needs, Kenosis becomes your engineering partner. Our customised solid carbide cutters are designed to match your exact cutting requirements, offering superior precision, strength, and durability across industries. Made from premium solid carbide, these tools deliver consistent performance even under demanding conditions, ensuring longer tool life and reliable results.

Customised Profiles to Match Your Needs :

- **Radius Profile (Ball Nose / Corner Radius) :** Smooths corners and creates fillets, removing sharp edges that can weaken parts, resulting in stronger and longer-lasting components.
- **V-Shape Profile :** Ideal for chamfering and fine detailing, this design produces clean bevels, reduces burrs, and improves the overall fit and finish of the part.

Key Features:

➔ **Custom Geometry Options :** Modify diameter, shank size, cutting length, or include unique V-angles and radius profiles to perfectly suit your operation.

➔ **Application-Specific Design :** Tools are enhanced with special coatings and cutting profiles to perform effectively on tough materials like titanium, stainless steel, and other abrasive alloys.

➔ **Precision Performance :** Each cutter is crafted to ensure accurate cuts, smooth finishes, and reduced burrs for a higher-quality output.

Key Applications:

➔ **Specialised Slitting & Notching :** Custom profiles for thin-wall cuts and precision notching processes such as tube cutting and surgical components.

➔ **Prototype Manufacturing :** Developing unique, short-run tools for R&D and pilot production.

➔ **Aerospace & Defense :** Producing complex, high-precision components that demand tight tolerances and customized geometries.

Slitting Carbide Cutters For The Fastener Industry

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Slitting Carbide Cutters For The Fastener Industry

Why Choose These Cutters ?

- → Ultra-thin kerf to reduce material waste.
- → Burr-free cutting thanks to specialized tooth design.
- → Coatings optimized for both non-ferrous metals and steel.

Where They Work Best :

- → Separating finished screws and bolts from stock.
- → Slotting screw heads with precision.
- → High-speed slitting of brass and copper parts.

Standard Sizes (Fastener Industry) :

- → Diameter (D) : 35, 38, 50, 58 mm
- → Thickness (B) : As per standard data
- → Inner Diameter (D1) : As per requirement

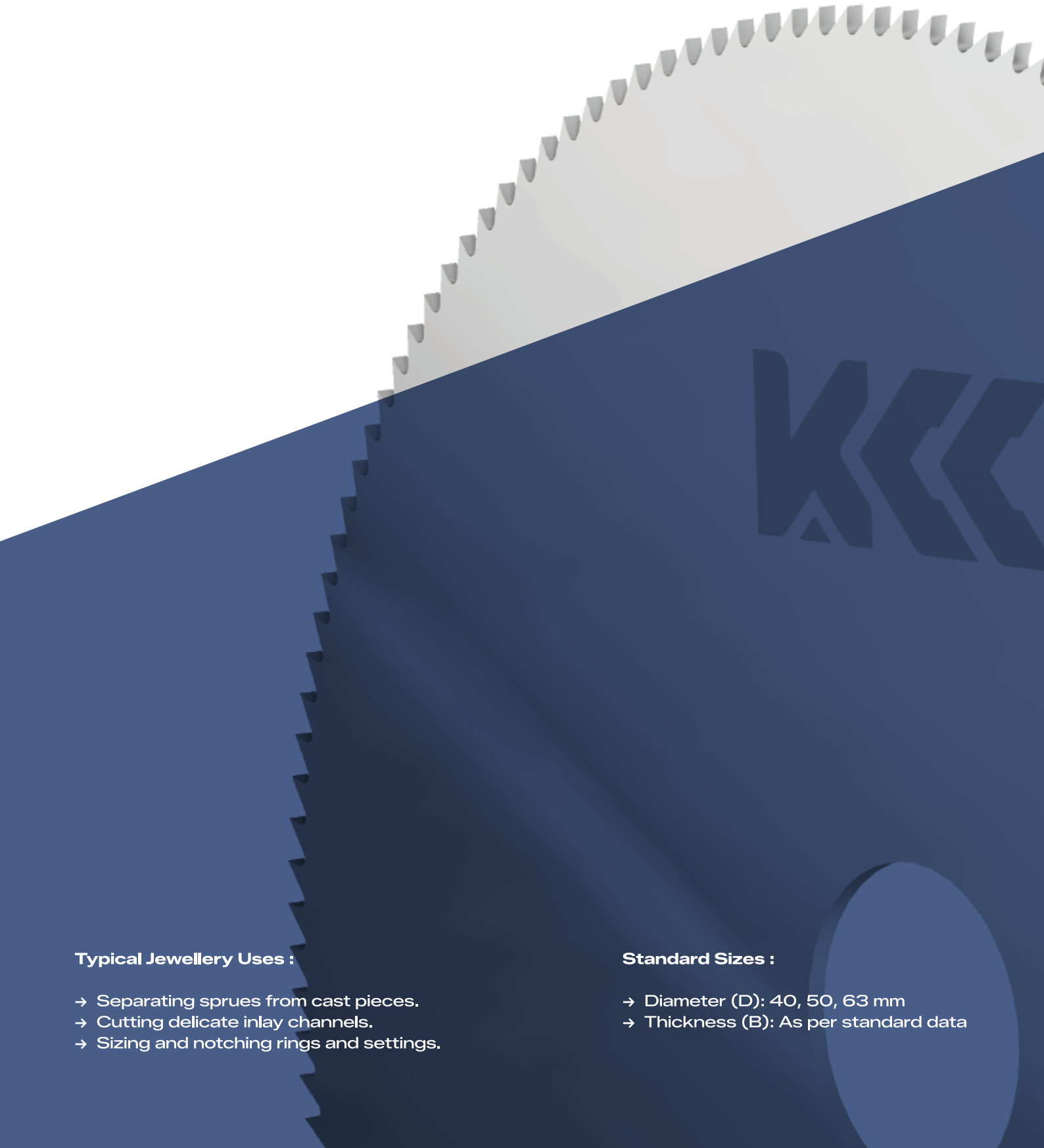
Carbide Slitting Cutters for Jewellers

Every fraction of precious metal counts in jewellery making. That's why our cutters are crafted to provide absolute precision and save material without compromising on quality. They deliver fine cuts, flawless surfaces, and less finishing time.

Carbide Slitting Cutters for Jewellers

What Makes Them Special :

- → Ultra-fine kerf that minimizes loss of gold, silver, or platinum.
- → Razor-sharp edge for burr-free, crisp cuts.
- → Smooth surface finish that reduces polishing.



Typical Jewellery Uses :

- → Separating sprues from cast pieces.
- → Cutting delicate inlay channels.
- → Sizing and notching rings and settings.

Standard Sizes :

- → Diameter (D): 40, 50, 63 mm
- → Thickness (B): As per standard data

Carbide Slitting Cutters for Paper Cutting

Industrial paper cutting requires tools that last longer and cut cleaner. Our carbide cutters are designed to outperform traditional blades, giving you precise, consistent cuts even at high speeds.

Carbide Slitting Cutters for Paper Cutting

Why They Outperform Steel :

- → Razor-sharp edge for smooth shearing without tearing.
- → Exceptional wear resistance, even with abrasive papers.
- → Consistent performance for uninterrupted operations.

Common Applications :

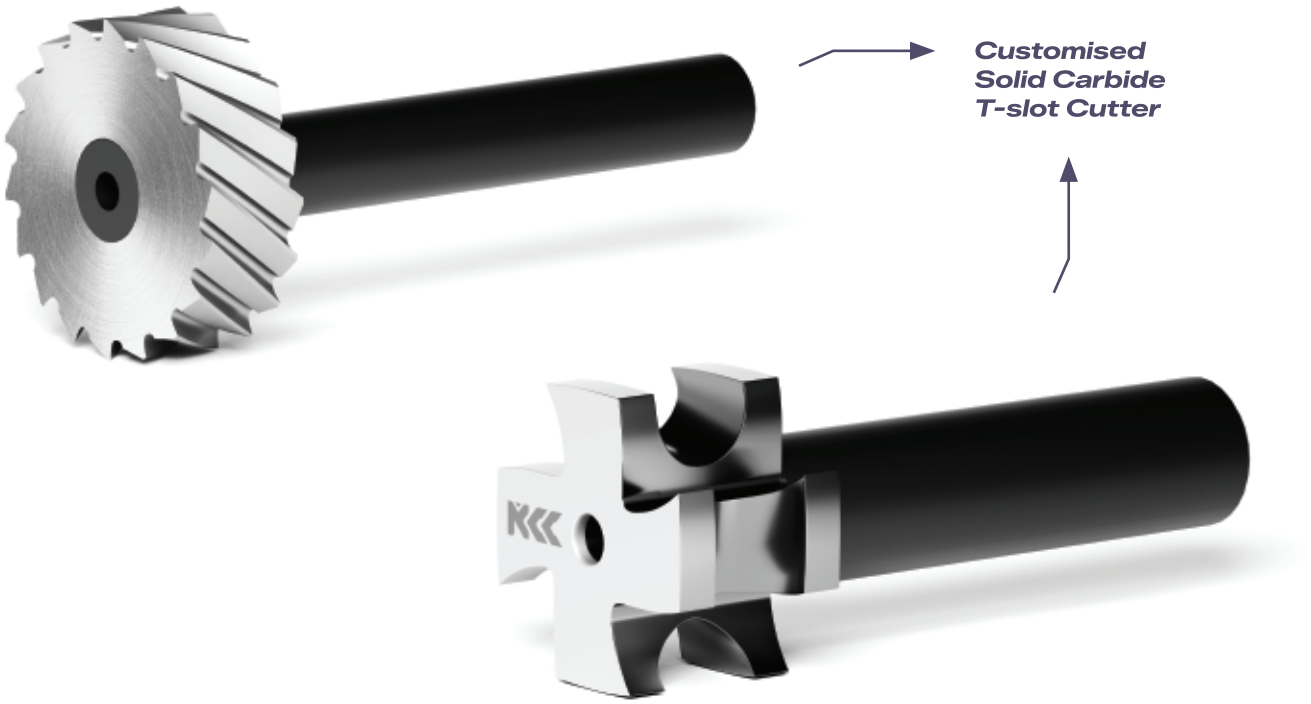
→ Slitting large paper rolls into smaller ones.
→ Cutting cardboard and corrugated sheets with clean edges.
→ Converting labels, films, and packaging stock without sticking.

Standard Size :

→ Diameter (D): 50 to 350 mm
→ Thickness (B): As per standard data

Customised Solid Carbide T-slot Cutter

Precision T-slot cutting demands geometry that performs consistently under load. Our customised T-slot carbide cutters are engineered for maximum rigidity, accuracy, and tool life, ensuring reliable performance in every operation.



Why They Stand Out :

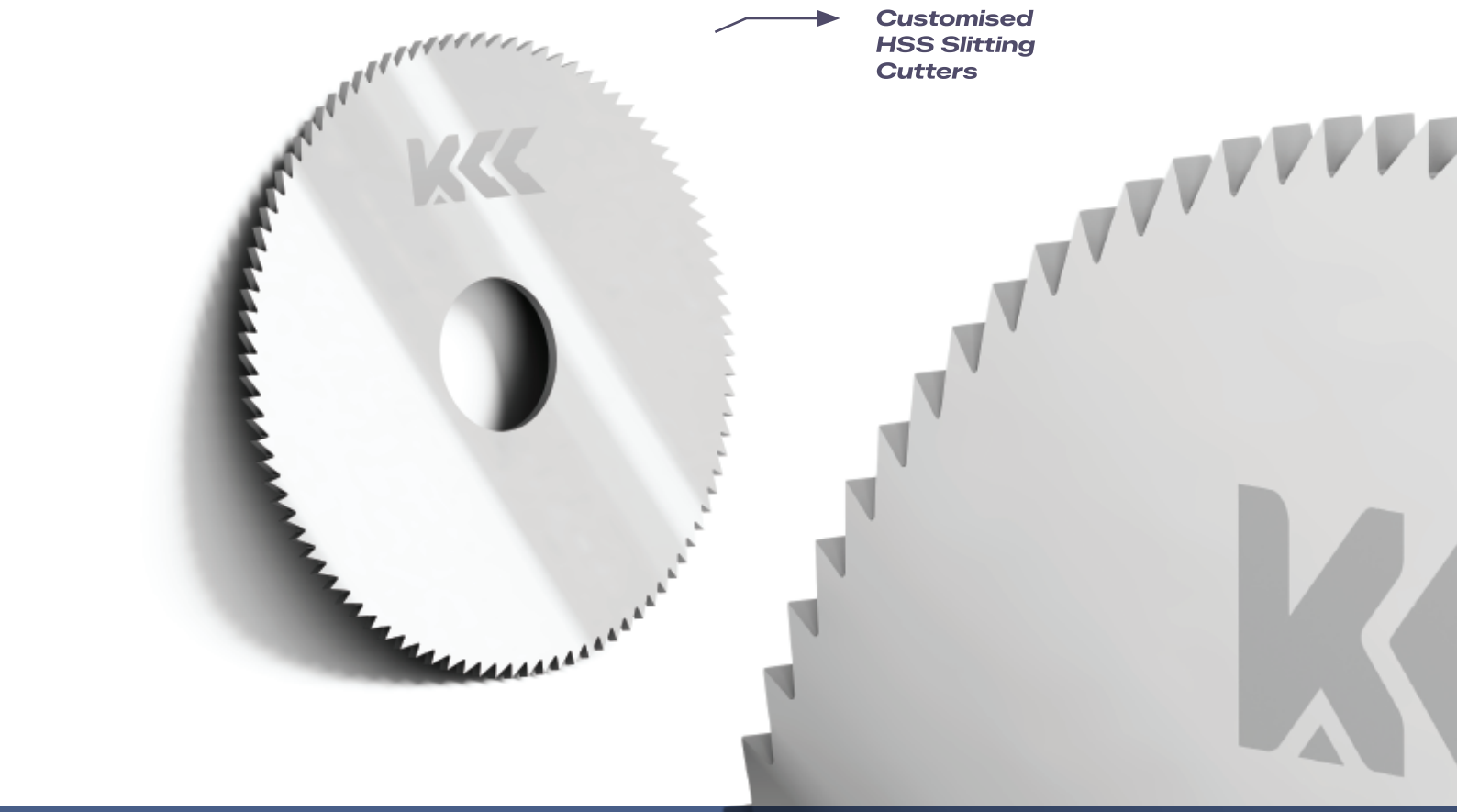
- → Tailored cutting profiles for specific T-slot width and depth requirements
- → Exceptional chip evacuation for clean, burr-free slots
- → Robust construction to withstand repeated heavy-duty cycles

Applications :

- → T-slot milling in machine tables and dies
- → Fixture base and mounting slot manufacturing
- → Precision metal cutting where alignment and accuracy are critical

Customised HSS Slitting Cutters

When high toughness and cost-effectiveness are key, HSS slittingcutters deliver outstanding performance. They're ideal for moderate-speed applications and offer excellent cutting stability, edge retention, and surface finish.



Key Features:

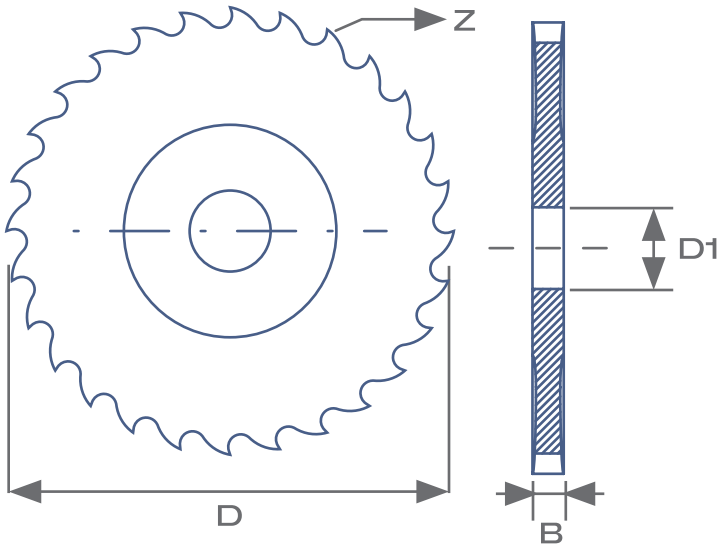
- → High wear resistance with superior shock absorption
- → Suitable for both ferrous and non-ferrous metals
- → Custom tooth geometry and coating options available

Typical Applications:

- → General-purpose slitting and slotting
- → Use in machines where carbide isn't required
- → Perfect balance of performance and economy

Standard Sizes of Carbide Slitting Cutters

Outer Diameter (D) (mm)	Standard Thickness (B) (mm)	Standard Inner Diameter (D1) (mm)	Standard No. of Teeth (Z)
15 – 20	0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.80, 1, 1.20, 1.60, 2, 2.50, 3, 4, 5, 6	6, 8	24, 32, 40, 48, 64, 80
22 – 25	0.20 – 6	6, 8	24, 32, 40, 48, 64, 80
26 – 31	0.20 – 6	6, 8	24, 32, 40, 48, 64, 80
32 – 40	0.50, 0.60, 0.80, 1, 1.20, 1.60, 2, 2.50, 3, 4, 5, 6	8, 10	32, 40, 48, 64, 80, 100
41 – 45	0.50 – 6	8, 10, 13	32, 40, 48, 64, 80, 100
46 – 50	0.50 – 6	10, 13, 16	40, 48, 64, 80, 100, 120
51 – 60	0.50 – 6	16, 22, 25.4	40, 48, 64, 80, 100, 120
62 – 65	0.50 – 6	16, 22, 25.4	48, 64, 80, 100, 120, 160
66 – 70	0.50 – 6	16, 22, 25.4	48, 64, 80, 100, 120, 160
72 – 80	0.50 – 6	16, 22, 25.4	64, 72, 80, 100, 120, 160
82 – 90	0.80, 1, 1.20, 1.50, 1.60, 2, 2.50, 3, 4, 5, 6	16, 22, 25.4	64, 72, 80, 100, 120, 160
91 – 100	0.80 – 6	22, 25.4	80, 100, 120, 160
101 – 125	0.80 – 6	22, 25.4, 32	80, 100, 120, 160
126 – 160	0.80 – 6	22, 25.4, 32	80, 100, 120, 160
161 – 180	0.80 – 6	25.4, 32	80, 100, 120, 160
181 – 200	0.80 – 6	25.4, 32	80, 100, 120, 160
38 (Fastener Ref.)	0.50 – 6	13	48, 50, 56, 64



Notes:

→ **Outer Diameter (D) (mm)**
Available in sizes ranging from 15 mm to 200 mm, depending on cutter specifications.

→ **Thickness (B) :**
Available from ultra-thin 0.20 mm up to 6 mm depending on cutter size.

→ **Inner Diameter (D1):**
Increases with tool size to match arbor hole dimensions from 6 mm up to 32 mm.

→ **Teeth (Z) :**
Larger diameters feature higher tooth counts to ensure smooth cutting and chip clearance.

→ **Fastener Reference :**
The 38 mm variant is commonly used in fastener applications, featuring a 13 mm bore and specific tooth counts.

Special Note:

All dimensions can be customized as per your requirements and applications.

Precision
in Every Cut

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