

Axyz Cnc Router-Knife Systems Carbide Cutting Knife Blades And End Mills Router Bit

Axyz CNC router-knife hybrid systems utilize specialized tungsten carbide cutting blades, drag/oscillating knives, and solid carbide router bits designed for high-performance fabrication



1. Drag-and-drop plotter blades for lightweight drag-and-drop plotters or mechanical vinyl attachments. They rotate freely with the movement of the gantry for fine cuts.

Axyz 20314: 45-degree Roland-type carbide blade. Standard configuration for everyday pressure-sensitive signage vinyl, cast vinyl, and film masking.

Axyz 22872: 60-degree Roland-type carbide blade. Offers a steeper angle for cutting thicker, denser materials such as high-visibility reflective film, glitter heat transfer vinyl (HTV), or magnetic foil.

2. [Reciprocating vibrating blades](#) (6mm round shank) designed for reciprocating cutters (such as the XYZ Trident series) to process flexible sheets and foams with a vertical "sawing" motion, avoiding tearing. The round/center tip (KR1 profile) is designed to slide along curves, reducing adhesion of high-density sheets. BT-57275 (B1041L-6 / KR1-6): 6 mm maximum cutting depth. Suitable for thin folding boards, cardboard, and fine gaskets.

BT-57267 (B1041L-10 / KR1-10): 10 mm maximum cutting depth blade. Designed for cardboard and low-density corrugated plastic sheets.

BT-57265 (B1041L-15 / KR1-15): 15 mm maximum cutting depth blade. Widely used for medium-thickness corrugated plastic sheets.

BT-57269 (B1041L-20 / KR1-20): 20 mm maximum cutting depth blade. Suitable for multi-layered cardboard.

BT-57268 (B1041L-25 / KR1-25): 25 mm (1 inch) maximum cutting depth. Suitable for sound-absorbing panels, insulation boards, and thick rubber gaskets.

BT-57268-30 (B1041L-30): Heavy-duty 30mm length version with optimized downward angle.

BT-572050 (B1041L-50): Maximum cutting depth 50mm. Ideal for cutting shipping box foam linings and multi-layer cardboard.

BT-572065 (B1041L-65 / KR1-65): 65mm deep-cut blade for thick packing pads.

BT-57270 (B1041L-70 / KR1-70): 70mm extra-long blade for high-density protective foam structures.

BT-57290 (B1041L-90 / KR1-90): 90mm deep-cut blade for processing building insulation materials.

BT-572100 (B1041L-100 / KR1-100): 100mm heavy-duty industrial-grade solid carbide insert. Maximum cutting depth suitable for thick technical furniture fabrics or packaging foams.

BT-572115 (B1041L-115): 115mm extra-long insert for dedicated deep foam milling blocks. Single-edged flat tip (KF1 type) provides maximum tool rigidity and clean cuts along flat lines on rigid, highly abrasion-resistant materials.

BT-57210 (B1031L-10 / KF1-10): 10mm flat tip insert.

BT-57215 (B1031L-15 / KF1-15): 15mm flat tip insert for thick washers and high-density rubber.

BT-57220 (B1031L-20 / KF1-20): 20mm flat-end insert.

BT-57230 (B1031L-30 / KF1-30): 30mm flat-end insert, suitable for tough rubber substrates.

BT-57235 (B1031L-35 / KF1-35): 35mm flat-end insert.

BT-57240 (B1031L-40 / KF1-40): 40mm flat-end insert.

BT-572070 (B1031L-70 / KF1-70): 70mm deep flat-end cutter.

BT-572110 (B1031L-110 / KF1-110): 110mm flat-head vibrating saw blade.

BT-572120 (B1031L-120 / KF1-120): 120mm maximum flat-head industrial blade.

BT-561215 (B1051L-15): 15mm deep dedicated single-edged oscillating blade.

BT-56290 (B1031L-90): 90mm single-edged flat-head vibrating tool.

B1051L-5: 5mm ultra-short pointed solid carbide blade for fine cardboard tracing.

Double-edged flat-head tip (KF2 type) allows for bidirectional cutting vectors without lifting the tool from the slot, thus increasing overall production speed.

BT-56240 (B2031L-40 / KF2-40): 40mm double-edged blade.

BT-56265 (B2031L-65 / KF2-65): 65mm double-edged blade.

BT-56270 (B2031L-70 / KF2-70): 70mm double-edged blade.

BT-562090 (B2031L-90): 90mm deep double-edged cutting blade.

3. Tangential and curved blades for heavy-duty steering tangential shaft modules. The machine precisely rotates these blades to match the cutting direction.

Part number 26082: 60° double-edged blade. Perfect balance of tip strength and flexibility, suitable for folding cartons, styrene, high-density PVC banners, and thick cardboard. BT1051X-20 (Part No. 61329): Extra-trapezoidal heavy-duty blade. Best suited for deep cutting of thick corrugated cardboard, high-density honeycomb panels, and thick gasket assemblies.

BT1051L-7: 7 mm tangential lightsaber blade specifically designed for high-density composites and carbon fiber prepreg layers.

BT1033d-29: Flat shank drag blade configured for direct mounting into a rigid tangential adapter for specialized heavy-duty packaging processing.

4. [Rotary Pizza Wheel Blades](#): These blades are housed in a rotating tangential blade housing. They roll directly through tough fibers, cleanly cutting materials that tend to clump or accumulate under standard blade tips.

Part No. 26085 / BT1041X-2 (028036): 48 mm solid carbide decagonal/circular rotating grinding wheel. Primarily used for fiberglass-reinforced plastic (GRP), vinyl flooring, woven textiles, and carbon abrasive gasket materials.

5. XYZ CNC engraving machines utilize a variety of specialized cutting tools, such as top/bottom spiral cutters, V-cutters, and multi-flute carbide end mills, suitable for a wide range of materials from wood and plastics to aluminum and composites. Common XYZ CNC cutting tool types:

Top and Bottom Spiral Cutters: Top-cutting drills remove chips upwards, while bottom-cutting drills leave a clean top surface finish.

V-Cutting Cutters and V-grooving Cutters: Designed for machining, folding, and 3D lettering/beveling on ACM (aluminum composite) panels (e.g., 90-degree or 150-degree XYZ V-cutting cutters).

Carbide End Mills: Single-flute, double-flute, or triple-flute carbide end mills for contouring and high-speed machining of non-ferrous metals such as aluminum.

PCD (Polycrystalline Diamond) Cutting Tips: Significantly extend tool life in grinding or high-volume production compared to standard carbide cutting tips.

Recommended Key Tools for [XYZ Routers](#)

Single-blade top-cutting spiral drill: Suitable for aluminum sheets, acrylic, and non-ferrous metals, ensuring fast chip removal without melting.

Compression slotting end mill: Best suited for double-sided laminates, MDF, and plywood, leaving clean, chip-free top and bottom edges.

Insertion-type V-groove cutter: An essential tool for ACM (aluminum composite) panel manufacturing due to its low blade replacement cost.

For more information about Shenzhen Oyea Machinery, please visit the company's official website ([link inserted here](#)).

Media Contact

Company Name: Shenzhen Oyea Machinery Co., Ltd.

Email: info@china-oyea.com

Address: No. 2008, Shennan Road, Futian District, Shenzhen

City: Shenzhen

Country: China

Website: <https://www.oyea-blades.com/>



Media Contact

Shenzhen Oyea Machinery Co., Ltd

*****@qq.com

18823852826

No. 2008 , Shennan Road , Futian District, Shenzhen, 518026

<https://www.oyea-blades.com/>

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