



KWS

CNC BITS

Table of Contents

CNC Bits

2-1/2" 3-Flute CNC Spoilboard Surfacing Bit

KWS-BIT-RC-2255-M

1/2" Inch Ball Nose Router Bit for 2D & 3D Carving

KWS-BIT-46495

1/2" Solid Carbide Mortise Compression Spiral Router Bit

KWS-BIT-46354

1/2" Solid Carbide Spiral Plunge Router Bit

KWS-BIT-46206-K

1/4" Extra Long Ball Nose CNC Router Bit

KWS-BIT-46490

1/4" Solid Carbide Compression Spiral Router Bit

KWS-BIT-46037

1/4" Solid Carbide Spiral Plunge Router Bit

KWS-BIT-46202-K

3/8" Inch Ball Nose CNC Router Bit for 2D & 3D Carving

KWS-BIT-46491

3/8" Compression Spiral Router Bit

KWS-BIT-46709-K

3/8" Solid Carbide Spiral Plunge Router Bit

KWS-BIT-46420-K



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2-1/2" CNC Router Bit 3 Flutes

Professional-grade CNC router bit designed for high-performance machining in woodworking, cabinetry, and composite materials. Featuring a 2-1/2" (63.5mm) diameter and 53/64" (21mm) cutting length with a robust 12mm shank, this 3-flute carbide bit delivers exceptional material removal rates and superior finish quality. The optimized geometry ensures smooth operation at high RPMs, making it ideal for CNC routers in industrial applications.



Technical Specifications

ID:	KWS-BIT-RC-2255-M
Cutting Diameter:	2-1/2" (63.5mm)
Cutting Height:	21mm
Shank Diameter:	12mm
Overall Length:	66mm
Flutes:	3 Tungsten Carbide Inserts
Applications:	Spoilboard surfacing, planing, slab leveling, fly cutting
Material:	Heavy-duty steel body with carbide inserts

Ideal for Cutting



Compatible Equipment



For more information about this product, additional options, and related references, visit our website!



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1/2" Inch Ball Nose Router Bit for 2D & 3D Carving

Ball Nose CNC Router Bit is engineered for precision 2D and 3D carving applications. With a 0.10° straight angle ball tip and a 2-1/4" cutting length, this solid carbide bit delivers smooth contours and intricate details in wood, plastics, and composite materials. The triple-flute design ensures efficient chip evacuation and extended tool life, making it ideal for sign making, mold making, and decorative carving.

Ideal for Cutting



Technical Specifications

ID:	KWS-BIT-46495
Cutting Diameter:	1/2" (12.7mm)
Cutting Length:	2-1/4" (57.2mm)
Shank Diameter:	1/2" (12.7mm)
Overall Length:	4" (101.6mm)
Flutes:	3T (Triple-flute)
Tip Angle:	0.10° Straight Angle Ball Tip
Material:	Solid Carbide with Titanium Coating
Applications:	2D/3D carving, sign making, mold making, decorative work

Compatible Equipment



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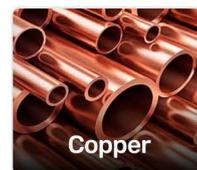
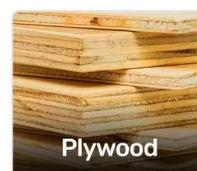




1/2" Solid Carbide Mortise Compression Spiral Router Bit

Mortise Compression Spiral Router Bit delivers professional-grade performance for CNC mortising and joinery applications. Featuring a specialized compression spiral design that combines up-cut and down-cut action in a single bit, this tool eliminates tear-out on both the top and bottom surfaces of materials. With a 1/2" diameter and 1-1/4" cutting length, this solid carbide bit ensures clean, precise cuts in plywood, laminated panels, and composite materials - making it ideal for furniture making, cabinet construction, and precision woodworking.

Ideal for Cutting



Technical Specifications

ID:	KWS-BIT-46354
Cutting Diameter:	1/2" (12.7mm)
Cutting Length:	1-1/4" (31.75mm)
Shank Diameter:	1/2" (12.7mm)
Overall Length:	3" (76.2mm)
Flutes:	2T Compression Spiral
Material:	Solid Carbide with Anti-Friction Coating

Compatible Equipment



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1/2" Solid Carbide Spiral Plunge Router Bit

The KWS K5+ Series Hinge Drill Bit delivers professional precision for installing European-style hinges. With a 35mm diameter, 70mm cutting height, and 10mm shank, this carbide-tipped bit creates clean, accurate boreholes for cabinet hinges in seconds. The specialized radius base design ensures perfect fit and prevents tear-out. Engineered with German technology and built to last, this hinge bit is ideal for carpenters, cabinet makers, and woodworking professionals seeking efficiency and flawless results.

Ideal for Cutting



Compatible Equipment



Technical Specifications

ID:	KWS-BIT-46206-K
Cutting Diameter:	1/2" (12.7mm)
Cutting Length:	1-1/4" (31.75mm)
Shank Diameter:	1/2" (12.7mm)
Overall Length:	3" (76.2mm)
Flutes:	2T Down Cut Spiral
Rotation:	Right (Clockwise)
Material:	Solid Carbide with Anti-Friction Coating
Applications:	CNC routing, laminated materials, veneers, plywood, composite panels

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1/4" Extra Long Ball Nose CNC Router Bit

Extra Long Ball Nose CNC Router Bit is engineered for precision 2D and 3D carving applications requiring extended reach. Featuring a 1/4" ball tip with 1/2" cutting length and solid carbide construction, this triple-flute bit delivers smooth, detailed contours in wood, plastics, and composite materials. The titanium coating reduces friction and extends tool life, making it ideal for deep cavity molds, intricate signage, and complex decorative carvings where precision and durability are essential.

Ideal for Cutting



Compatible Equipment



Technical Specifications

ID:	KWS-BIT-46490
Cutting Diameter:	1/4" (6.35mm)
Cutting Length:	1/2" (12.7mm)
Shank Diameter:	1/4" (6.35mm)
Overall Length:	4" (101.6mm)
Flutes:	3T (Triple-flute)
Material:	Solid Carbide with Titanium Coating
Applications:	Deep 3D carving, mold making, intricate signage, decorative engraving



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1/4" Solid Carbide Compression Spiral Router Bit

Solid Carbide Compression Spiral Router Bit delivers professional performance for CNC applications requiring pristine edges on both sides of the material. Featuring a specialized compression spiral design that combines up-cut and down-cut action, this 1/4" diameter bit eliminates tear-out on both the top and bottom surfaces of laminated panels, plywood, and composite materials. With a 1" cutting length and solid carbide construction, it's ideal for precision cabinet making, sign production, and fine woodworking where flawless edges are essential.

Ideal for Cutting



Technical Specifications

ID:	KWS-BIT-46037
Cutting Diameter:	1/4" (6.35mm)
Cutting Length:	1" (25.4mm)
Shank Diameter:	1/4" (6.35mm)
Overall Length:	2-1/2" (63.5mm)
Flutes:	2T Compression Spiral
Material:	Solid Carbide with Wear-Resistant Coating
Applications:	Cabinet making, sign production, laminated panels, plywood
Ideal for:	CNC routing requiring clean edges on both surfaces

Compatible Equipment



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1/4" Solid Carbide Spiral Plunge Router Bit

Solid Carbide Spiral Plunge Router Bit provides precision performance for detailed CNC routing applications. Featuring a 1/4" diameter and 1" cutting length with down-cut spiral design, this bit delivers clean, splinter-free edges on the top surface of laminated materials, veneers, and delicate wood composites. The solid carbide construction with specialized coating ensures extended tool life and optimal performance in intricate routing tasks, making it ideal for fine woodworking, inlay work, and detailed pattern cutting.

Ideal for Cutting



Technical Specifications

ID:	KWS-BIT-46202-K
Cutting Diameter:	1/4" (6.35mm)
Cutting Length:	1" (25.4mm)
Shank Diameter:	1/4" (6.35mm)
Overall Length:	2-1/2" (63.5mm)
Flutes:	2T Down Cut Spiral
Rotation:	Right (Clockwise)
Material:	Solid Carbide with Anti-Friction Coating
Applications:	Detailed CNC routing, inlay work, pattern cutting, delicate materials
Ideal for:	Fine woodworking, musical instrument making, decorative elements

Compatible Equipment



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3/8" Solid Carbide Spiral Plunge Router Bit

Solid Carbide Spiral Plunge Router Bit delivers exceptional performance for CNC routing applications requiring clean top-surface finishes. This 2-flute down-cut bit features a 3/8" diameter and 1-1/4" cutting length, specifically designed to push chips downward while producing splinter-free edges on laminated materials, plywood, and composite panels. The solid carbide construction with anti-friction coating ensures long tool life and consistent performance in demanding production environments.

Ideal for Cutting



Technical Specifications

ID:	KWS-BIT-46420-K
Cutting Diameter:	3/8" (9.5mm)
Cutting Length:	1-1/4" (31.75mm)
Shank Diameter:	3/8" (9.5mm)
Overall Length:	3" (76.2mm)
Flutes:	2T Down Cut
Material:	Solid Carbide with Anti-Friction Coating
Applications:	CNC routing, laminated materials, plywood, composite panels
Ideal for:	Cabinetry, sign making, precision woodworking

Compatible Equipment



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3/8 Inch Ball Nose CNC Router Bit for 2D & 3D Carving

Ball Nose CNC Router Bit delivers precision performance for detailed 2D and 3D carving applications. Featuring a 3/8" ball tip and 3/4" cutting length, this solid carbide bit creates smooth contours and intricate details in wood, plastics, and composite materials. The triple-flute design with titanium coating ensures efficient chip removal, extended tool life, and superior finish quality - perfect for mold making, sign making, and decorative work.

Ideal for Cutting



Technical Specifications

ID:	KWS-BIT-46491
Cutting Diameter:	3/8" (9.5mm)
Cutting Length:	3/4" (19mm)
Shank Diameter:	3/8" (9.5mm)
Overall Length:	4" (101.6mm)
Flutes:	3T (Triple-flute)
Material:	Solid Carbide with Titanium Coating
Applications:	2D/3D carving, mold making, sign making, decorative engraving

Compatible Equipment



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3/8" Compression Spiral Router Bit

Solid Carbide Compression Spiral Router Bit delivers professional-grade performance for CNC woodworking applications. Featuring a unique compression spiral design that combines up-cut and down-cut action, this bit eliminates tear-out on both sides of the material, producing clean edges in plywood, laminated panels, and composite materials. The triple-flute design and solid carbide construction ensure maximum durability and precision cuts through the entire 1-1/8" cutting length.

Ideal for Cutting



Technical Specifications

ID:	KWS-BIT-46709-K
Cutting Diameter:	3/8" (9.5mm)
Cutting Length:	1-1/8" (28.6mm)
Shank Diameter:	3/8" (9.5mm)
Overall Length:	3" (76.2mm)
Flutes:	3T (Triple-flute)
Coating:	Anti-friction coating
Material:	Solid carbide
Applications:	CNC routing, plywood, laminated panels, composite materials

Compatible Equipment



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