

CNC Bits Buying Guide

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Get a [CNC Milling Bit Storage Tray](#) to Group Your Bits In Order

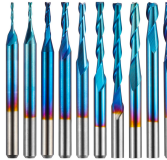
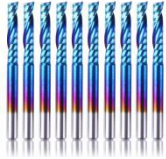
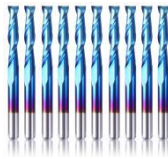
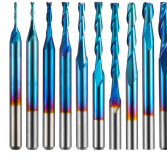
Picture						
Model		C08	C15	SS17	SF17	FN10A
Type		Spiral Bits				
		Fishtail End Mill/Corn-shaped End Mill	Square Nose End Mill			
			Flat Nose			
Specification	Shank	1/8" (3.175mm)				
	Flute	/		1 (Single Flute)	2	
	Degree	/				
	Material	Tungsten Carbide Steel Alloy				
	Coating	Nano Blue Coating				
	Cutting Diameter	0.8-3.0mm	1.5-3.175mm	3.175mm		1.0-3.175mm
	Cutting Length	12mm	12mm	17mm		6-22mm
	Overall Length	38mm				

Chart 1-1

Picture						
Model		C08	C15	SS17	SF17	FN10A
Application Materials	Wood (MDF,Hardwood, Plywood...)	☆	☆	☆	☆	☆
	Plastic (ABS, Acrylic, PVC...)	☆	☆	☆	☆	☆
	Soft Metal (Al,Fe,Cu,Steel...)	✓	✓	✓	✓	✓
	Circuit Board (PCB)	☆	☆	×	×	✓
	Others (Ceramic, Granite, Glass...)	×	×	×	×	×
Ideal for	Slot Milling	✓	✓	✓	✓	✓
	Side Milling	✓	✓	✓	✓	✓
	Face Milling	✓	✓	✓	✓	✓
	3D Milling	×	×	×	×	×
	Drilling	✓	✓	×	×	✓
	Engraving(Lettering...)	✓	✓	✓	✓	✓
	Polishing	×	×	×	×	×
	Grinding	×	×	×	×	×
	Deburring	×	×	×	×	×

Note ☆: Recommended, ✓: Applicable, ×: Not Applicable

Chart 1-2

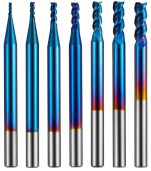
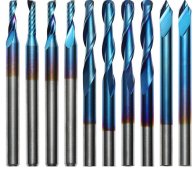
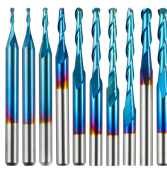
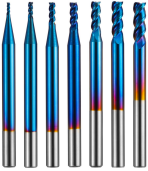
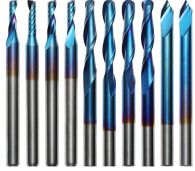
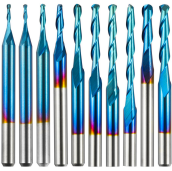
Picture					
Model		SN07A	EM10B	SB17	BN10A
Type		Spiral Bits	Flat Nose Ball Nose V-Groove End Mil	Spiral Bits	
		Square Nose End Mill		Ball Nose End Mill	
		Flat Nose		Ball Nose	
Specification	Shank	4mm	1/8" (3.175mm)	1/8" (3.175mm)	
	Flute	3	1 & 2	2	
	Degree	/	60°	/	
	Material	Tungsten Carbide Steel Alloy	Tungsten Carbide Steel Alloy	Tungsten Carbide Steel Alloy	Tungsten Carbide Steel Alloy
	Coating	Nano Blue Coating	Nano Blue Coating	Nano Blue Coating	Nano Blue Coating
	Cutting Diameter	1, 1.5, 2, 2.5 3, 3.5, 4mm	01mm, 2mm, 3.175mm	3.175mm	1.0-2.5mm
	Cutting Length	3, 5, 7, 8, 11, 12, 13mm	8mm, 17mm	17mm	6-22mm
	Overall Length	50mm	38mm	38mm	38mm

Chart 2-1

Picture					
Model		SN07A	EM10B	SB17	BN10A
Application Materials	Wood (MDF,Hardwood, Plywood...)	☆	☆	☆	☆
	Plastic (ABS, Acrylic, PVC...)	☆	☆	☆	☆
	Soft Metal (Al,Fe,Cu,Steel...)	☆	✓	✓	✓
	Circuit Board (PCB)	×	✓	×	✓
	Others (Ceramic, Granite, Glass...)	✓	×	×	×
Ideal for	Slot Milling	☆	✓	✓	✓
	Side Milling	☆	✓	✓	✓
	Face Milling	✓	✓	×	×
	3D Milling	×	✓	✓	✓
	Drilling	×	✓	×	✓
	Engraving(Lettering...)	×	✓	✓	✓
	Polishing	×	×	×	×
	Grinding	×	×	×	×
	Deburring	×	×	×	×

Note ☆: Recommended, ✓: Applicable, ×: Not Applicable

Chart 2-2

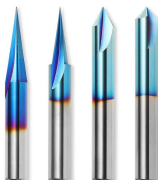
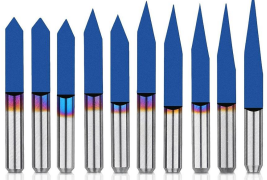
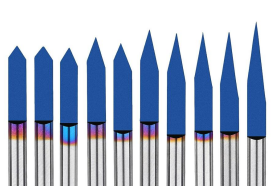
Picture						
Model		TB04A	TB04B	MC10A	WC04A	VS10A
Type		Spiral Bits		Tapered Ball Nose Fishtail End Mill Straight Router Bit V-shape Engraving Bit Compression Cutter Ball Nose V-Groove Router Bit	15° Detail Carving Liner 20° Profile Bit 60° V-Groove 90° V-Groove	Conical V-Bit
		Ball Nose End Mill				V-shape Engraving Bit
		Tapered Ball Nose				
Specification	Shank	1/8" (3.175mm)	1/4" (6.35mm)	1/4" (6.35mm)	1/4" (6.35mm)	1/8" (3.175mm)
	Flute	2	2	2	/	/
	Degree	/		30° 60° 90°	15° 20° 60° 90	10 /15 /20 /25 /30 /40 /45 /60 /90
	Material	Tungsten Carbide Steel Alloy				
	Coating	Nano Blue Coating				
	Cutting Diameter	R0.25, 0.5,0.75 ,1.0	R0.25, 0.5, 0.75, 1.0	1.58mm, 3.175mm, 4.76mm, 6.35mm, 12.7mm	0.2mm	0. 1mm/0. 3mm
	Cutting Length	15mm	20mm	12.7mm, 19.05mm, 22mm, 25.4mm	/	/
	Overall Length	38mm	50mm	50mm, 55mm, 57mm, 63mm	50mm	26-29mm

Chart 3-1

Picture						
Model		TB04A	TB04B	MC10A	WC04A	VS10A
Application Materials	Wood (MDF,Hardwood, Plywood...)	☆	☆	☆	☆	✓
	Plastic (ABS, Acrylic, PVC...)	☆	☆	☆	☆	☆
	Soft Metal (Al,Fe,Cu,Steel...)	✓	✓	✓	✓	✓
	Circuit Board (PCB)	×	×	×	×	×
	Others (Ceramic, Granite, Glass...)	×	×	×	×	×
Ideal for	Slot Milling	✓	✓	✓	☆	×
	Side Milling	✓	✓	✓	✓	×
	Face Milling	×	×	✓	✓	×
	3D Milling	✓	✓	✓	×	×
	Drilling	×	×	×	×	×
	Engraving(Lettering...)	✓	✓	✓	✓	☆
	Polishing	×	×	×	×	×
	Grinding	×	×	×	×	×
	Deburring	×	×	×	×	×

Note ☆: Recommended, ✓: Applicable, ×: Not Applicable

Chart 3-2

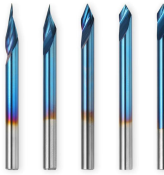
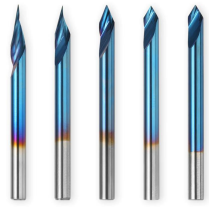
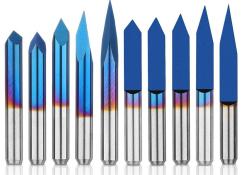
Picture						
Model		PD30A	V15	V20	VG05B	VS10B
Type		Spiral Bits	Conical V-Bit			
		PCB Drill Bit	V-shape Engraving Bit		V-Groove Router Bit	V-shape Engraving Bit
Specification	Shank	1/8" (3.175mm)	1/8" (3.175mm)		1/8" (3.175mm)	1/8" (3.175mm)
	Flute	/				
	Degree	/	15°	20°	20° , 30° ,45° ,60°	20° , 30° ,45° ,65° ,90°
	Material	Tungsten Carbide Steel Alloy				
	Coating	/	Nano Blue Coating			
	Cutting Diameter	0.1-1.0mm 1.1-2.0mm 2.1-3.0mm	0.1mm		3.175mm	0.1mm
	Cutting Length	/	/		/	/
	Overall Length	38mm	30mm		40mm	24-30mm

Chart 4-1

Picture						
Model		PD30A	V15	V20	VG05B	VS10B
Applications	Wood (MDF,Hardwood, Plywood...)	✓	✓	✓	☆	✓
	Plastic (ABS, Acrylic, PVC...)	✓	☆	☆	✓	☆
	Soft Metal (Al,Fe,Cu,Steel...)	×	✓	✓	✓	✓
	Circuit Board (PCB)	☆	×	×	×	×
	Others (Ceramic, Granite, Glass...)	×	×	×	×	×
Ideal for	Slot Milling	×	×	×	☆	×
	Side Milling	×	×	×	×	×
	Face Milling	×	×	×	×	×
	3D Milling	×	×	×	×	×
	Drilling	☆	×	×	×	×
	Engraving(Lettering...)	☆	☆	☆	✓	☆
	Polishing	×	×	×	×	×
	Grinding	×	×	×	×	×
	Deburring	×	×	×	×	×

Note ☆: Recommended, ✓: Applicable, ×: Not Applicable

Chart 4-2

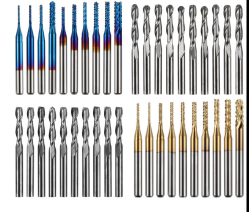
Picture						
Model		EM03A	MC30B	MC30A	MC50A	MC40A
Type		Tapered Ball Nose End Mill V-shape Engraving Bit	Corn-shaped End Mills 2 Flute Flat Nose End Mills V-shape Engraving Bit	O Flute End Mills 2 Flute Ball Nose End Mills Corn-shaped End Mill	2-Flute Flat Nose End Mills 2-Flute Ball Nose End Mills Corn-shaped End Mill PCB Drill Bits V-Groove Engraving Bits 2-Flute Straight Router Bit	2-Flute Spiral Flat Nose 2-Flute Spiral Ball Nose Fishtail End Mill (Nano Blue Coating) Fishtail End Mill (Titanium Coating)
Specification	Shank	1/8" (3.175mm)	1/8" (3.175mm)	1/8" (3.175mm)	1/8" (3.175mm)	1/8" (3.175mm)
	Flute	1 & 2	2	1 & 2	2	2
	Degree	10° , 30°	30°	/	20° 30° 45° 60° 90°	/
	Material	Tungsten Carbide Steel Alloy				HSS
	Coating	Chromatic Coating	Nano Blue Coating Titanium Coating			Nano Blue Coating Titanium Coating
	Cutting Diameter	R0.25mm, D 0.1mm, D 0.2mm	3.175mm, 0.1mm	0.8mm, 3.175mm	1-3.175mm, 1.1-2.0mm	3.175 mm 0.8-3.0 mm
	Cutting Length	15mm	14, 16, 17mm	8, 17mm	4-22mm	17mm
	Overall Length	40mm, 27mm	27, 38mm	38mm	38, 45mm	38mm

Chart 5-1

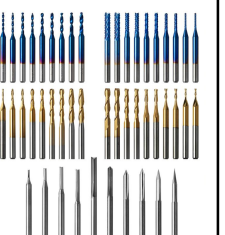
Picture						
Model		EM03A	MC30B	MC30A	MC50A	MC40A
Application Materials	Wood (MDF,Hardwood, Plywood...)	☆	☆	☆	☆	☆
	Plastic (ABS, Acrylic, PVC...)	☆	☆	☆	☆	☆
	Soft Metal (Al,Fe,Cu,Steel...)	☆	✓	✓	✓	✓
	Circuit Board (PCB)	✓	✓	✓	☆	✓
	Others (Ceramic, Granite, Glass...)	×	×	×	×	×
Ideal for	Slot Milling	✓	✓	✓	☆	✓
	Side Milling	✓	✓	✓	✓	✓
	Face Milling	×	✓	✓	✓	✓
	3D Milling	✓	×	✓	✓	✓
	Drilling	✓	✓	✓	☆	✓
	Engraving(Lettering...)	☆	☆	✓	✓	✓
	Polishing	×	×	×	×	×
	Grinding	×	×	×	×	×
	Deburring	×	×	×	×	×

Chart 5-2

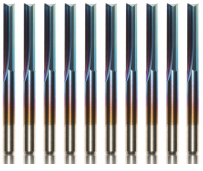
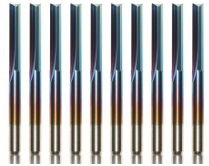
Picture						
Model		V30	VG05A	RB03A	SR10A	VG03A
Type		Conical V-Bit		Router Bit		
		V-shape Engraving Bit	V-groove Bit	T-Shape Spoilboard Surfacing	Straight Router Bit	V-Groove Router Bit
Specification	Shank	1/8" (3.175mm)	6mm	1/4" (6.35mm)	1/8" (3.175mm)	1/4"(6.35mm) & 6mm
	Flute	/	/	3	2	/
	Degree	30°	60° , 90° , 120° , 150°	/	/	60° ; 90°
	Material	Tungsten Carbide Steel Alloy				
	Coating	Nano Blue Coating	/	/	Nano Blue Coating	Blue & Yellow
	Cutting Diameter	0.1mm	16,22,22,32,32mm	24mm	3.175mm	10mm, 12.7mm
	Cutting Length	/	11,11,15,17,31.5mm	7mm	17mm	12.7mm, 16mm
	Overall Length	30mm	40,42,46,49,63mm	40mm	38mm	50mm

Chart 6-1

Picture						
Model		V30	VG05A	RB03A	SR10A	VG03A
Application Materials	Wood (MDF,Hardwood, Plywood...)	√	☆	☆	☆	☆
	Plastic (ABS, Acrylic, PVC...)	☆	×	×	☆	×
	Soft Metal (Al,Fe,Cu,Steel...)	√	×	×	×	×
	Circuit Board (PCB)	×	×	×	×	×
	Others (Ceramic, Granite, Glass...)	×	×	×	×	×
Ideal for	Slot Milling	×	☆	☆	☆	☆
	Side Milling	×	√	☆	☆	√
	Face Milling	×	×	√	√	×
	3D Milling	×	×	×	×	×
	Drilling	×	×	×	√	×
	Engraving(Lettering...)	☆	×	×	×	×
	Polishing	×	×	×	×	×
	Grinding	×	×	×	×	×
	Deburring	×	×	×	×	×

Note ☆: Recommended, √: Applicable, ×: Not Applicable

Chart 6-2

Picture						
Model		SS01	SS02	SS03	SS04	SS05
Type		CNC Spoilboard Surfacing Router Bit				
Specification	Shank	1/4" (6.35mm)	1/4" (6.35mm)	1/4" (6.35mm)	1/4" (6.35mm)	1/2" (12.7mm)
	Material	Tungsten Carbide Steel Alloy				
	Cutting Diameter	1" (25.4mm)	1-1/2" (38.1mm)	1" (25.4mm)	1" (25.4mm)	2-9/25"(60mm)
	Cutting Length	12mm	12mm	10.5mm	10.5mm	12mm
	Overall Length	64mm	60mm	45mm	45mm	64mm
	Wings	2	2	3	4	3

Chart 7-1

Picture						
Model		SS01	SS02	SS03	SS04	SS05
Application Materials	Wood (MDF,Hardwood, Plywood...)	☆	☆	☆	☆	☆
	Plastic (ABS, Acrylic, PVC...)	✓	✓	✓	✓	✓
	Soft Metal (Al,Fe,Cu,Steel...)	×	×	×	×	×
	Circuit Board (PCB)	×	×	×	×	×
	Others (Ceramic, Granite, Glass...)	×	×	×	×	×
Ideal for	Slot Milling	☆	☆	☆	☆	☆
	Side Milling	✓	✓	✓	✓	✓
	Face Milling	☆	✓	☆	☆	☆
	3D Milling	×	×	×	×	×
	Drilling	×	×	×	×	×
	Engraving(Lettering...)	×	×	×	×	×
	Polishing	×	×	×	×	×
	Grinding	×	×	×	×	×
	Deburring	×	×	×	×	×

Note ☆: Recommended, ✓: Applicable, ×: Not Applicable

Chart 7-2

Picture					
Model		SS06	VG01	VG02	VG03
Type		CNC Spoilboard Surfacing Router Bit	V Groove Carbide Inserts Router Bit		
Specification	Shank	1/2" (12.7mm)	1/4" (6.35mm)	1/2" (12.7mm)	1/2" (12.7mm)
	Material	Tungsten Carbide Steel Alloy			
	Cutting Diameter	1-1/2" (38.1mm)	11/16" (38.1mm)	1-1/2" (38.1mm)	2" (51.6mm)
	Cutting Length	12mm	12mm	26mm	30mm
	Overall Length	60mm	50mm	76mm	76mm
	Wings	4	/	/	/
	Degree	/	90	90	120

Chart 8-1

Picture					
Model		SS06	VG01	VG02	VG03
Application Materials	Wood (MDF,Hardwood, Plywood...)	★	★	★	★
	Plastic (ABS, Acrylic, PVC...)	✓	✓	✓	✓
	Soft Metal (Al,Fe,Cu,Steel...)	×	×	×	×
	Circuit Board (PCB)	×	×	×	×
	Others (Ceramic, Granite, Glass...)	×	×	×	×
Ideal for	Slot Milling	✓	★	★	★
	Side Milling	★	✓	✓	✓
	Face Milling	★	×	×	×
	3D Milling	×	×	×	×
	Drilling	×	✓	✓	✓
	Engraving(Lettering...)	×	✓	×	×
	Polishing	×	×	×	×
	Grinding	×	×	×	×
	Deburring	×	×	×	×

Note ★: Recommended, ✓: Applicable, ×: Not Applicable

Chart 8-2

