

**Laser source  
machining**



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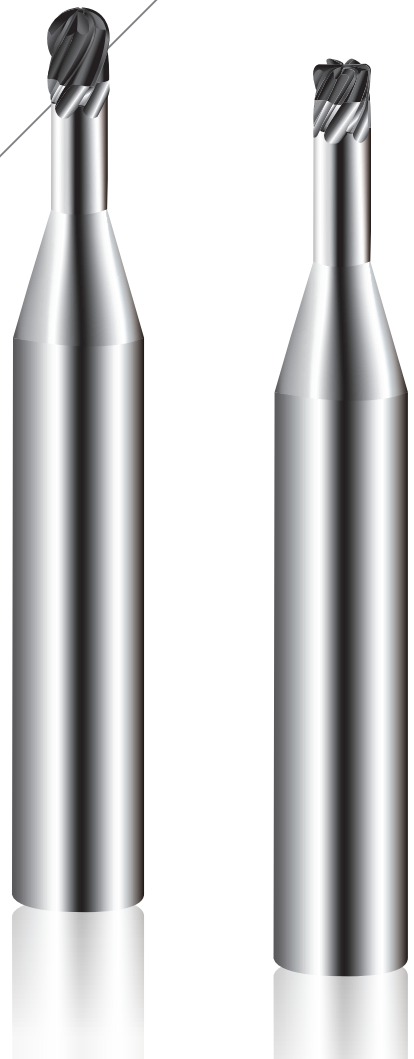


**CHIN MING Corporation**

**2023**

**NEW** Design

**PCD-PCBN Helix Flute  
Tools**

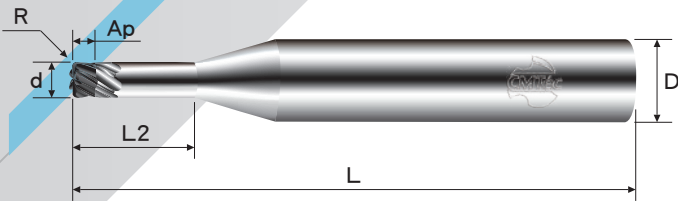




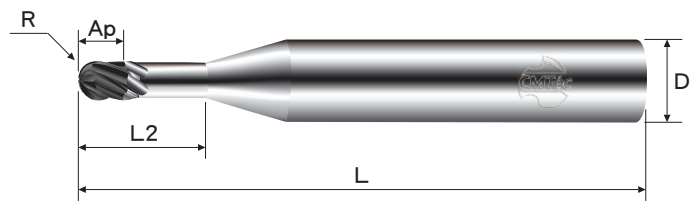
Professional · Design · Manufacturing

# ULTRA-HARD MATERIAL MACHINING

## PCD Helix Flute End Mills- NEW Multi-Flute



PCD Corner Radius End Mills



PCD Ball Nose End Mills

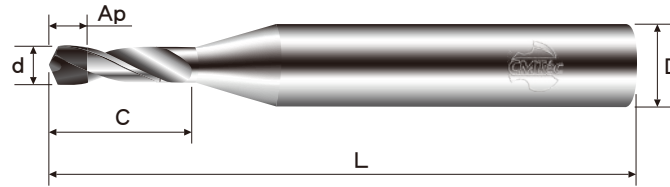
d	Tolerance
$\phi$	0 ~ -0.01

Radius	Tolerance
R	$\pm 0.005$

Type	d	R	Ap	L2	L	D	Flute
PCD Corner Radius	0.3 ~ 6.0	0.05 ~ 0.3R	$\cong 1.8$	Custom Order	50 · 60	3 ~ 6	3 ~ 57
PCD Ball Nose	0.4 ~ 6.0	0.2 ~ 3.0R	$\cong 1.8$	Custom Order	50 · 60	3 ~ 6	2

- ▶ Multi-flute decreases cutting resistance and makes high efficiency.
- ▶ Applies to high precision machining of carbide and ceramics.

# PCD Helix Flute Drilling NEW

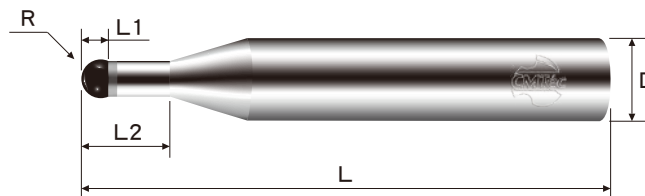


d	Tolerance
$\phi$	0 ~ -0.01

Type	d	C	L	D	Flute
PCD Drilling	0.3 ~ 3.0	Custom Order	50 ~ 60	3 ~ 6	2

► For carbide, ceramics, aluminum, copper, graphite and carbon fiber drilling.

# PCD Ball Rolling Cutter NEW



Radius	Tolerance
R	$\pm 0.005$

**Coming soon...**

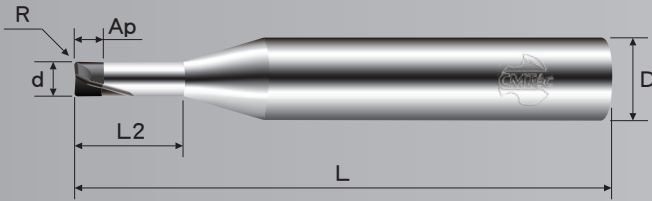
Type	R	L1	L2	L	D	Flute
PCD Ball Rolling Cutter	0.15 ~ 3.0R	Same as R	Custom Order	50 ~ 60	3 ~ 6	0

- Special cutting edge and high accuracy R of  $\pm 0.005$ mm realize high quality mirror polished machining.
- Applies to carbide and hardened steel( $\leq 70$ HRC) mirror polished machining.

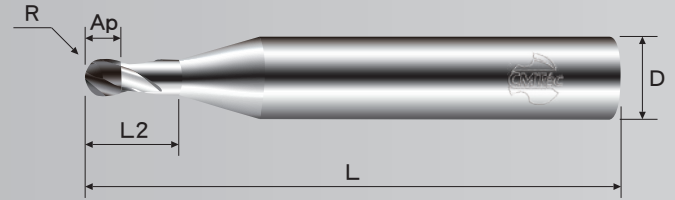
# PCBN Helix Flute End Mills

**NEW**

For hardened steel(HRC45~65°) and powder metallurgy machining.



PCBN Corner Radius End Mills



PCBN Ball Nose End Mills

d	Tolerance
$\phi$	0 ~ -0.01

Radius	Tolerance
R	$\pm 0.005$

Type	d	R	Ap	L2	L	D	Flute
PCBN Corner Radius	0.3 ~ 6.0	0.05~0.5R	$\cong 1.8$	Custom Order	50 ~ 60	3 ~ 6	2
PCBN Ball Nose	0.6 ~ 6.0	0.3 ~ 3.0R	$\cong 1.8$	Custom Order	50 ~ 60	3 ~ 6	2



**100%**

**MADE IN TAIWAN**

**CHIN MING PRECISION TOOLS CO., LTD.**

Head Office : TEL/ +886-6-7940726 #235

FAX/ +886-6-7941217

Taipei Branch : TEL/ +886-2-29043033

FAX/ +886-2-29030963

LINE  S : give0117

✉ [telesales@cmtools.com.tw](mailto:telesales@cmtools.com.tw)