

imaki

易磨機

聚晶鑽石&氮化硼刀具磨床
PCD&PCBN tool grinding machine

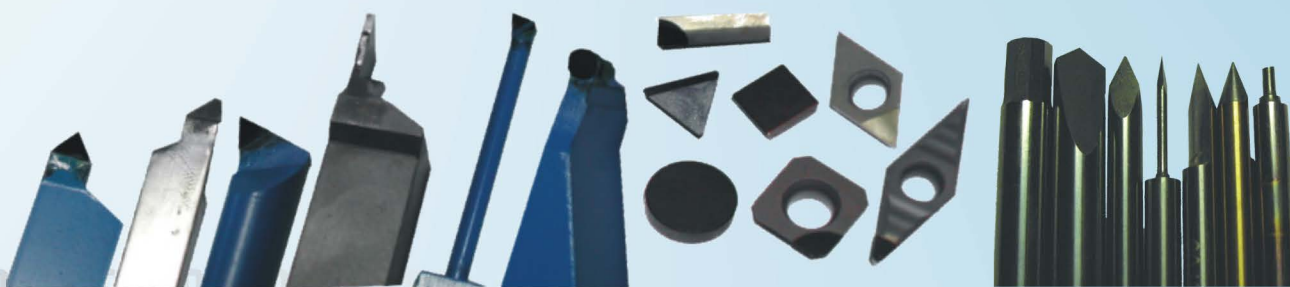
CD-G7



CD-G7-4 四軸機型
4-axis mode



CD-G7-2 兩軸基本機型
2-axis Basic mode



CODA MACHINERY CO., LTD.



■ CCD顯微量測系統

十段倍率多功能定焦顯微鏡，搭配高解析CCD攝影機，大型液晶螢幕，輕鬆觀測極微小之刀具外觀。並於研磨的過程中，隨時觀察研磨刀具情形，並量測刀具R角。密閉防護的顯微鏡系統，鏡頭部分配有防護鏡片，防止鑽石磨屑、研磨液進入鏡頭，亦增加顯微鏡筒壽命。

CCD Video scope system

The microscope has 10-time magnifications. With the high sensitivity CCD camera and big LCD screen, users can easily observe small tools. During grinding, users can constantly monitor the tools and measure the radius of the tool. The microscope system is sealed and protected and it has safety lense to stop grind dust and coolant from getting in, so it is more durable.



■ 伺服控制系統

友善的操作介面，操作者不需學習撰寫程式，傻瓜式的教導，利用手輪、搖桿搭配觸控螢幕，可輕易的操作機器、設定系統的位置、速度、轉向...各項參數。

Servo control system

Friendly operational interface. Users don't need to learn how to write the program. Fool-proof tutorial. Using the handwheel, joystick and the touch screen, users can operate the machine easily, including setting up the parameters of the system (system locations, speeds, turning directions).

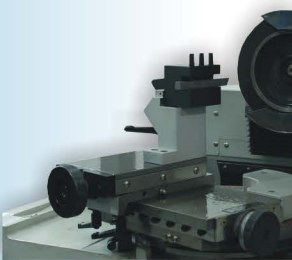


■ 操作介面

提供多國語言，提供簡單且快速的切換；並具有資料庫功能，將所研磨過的刀具參數、砂輪左右往復橫移範圍、速度，快速的儲存或載入執行畫面內。

Operational interface

We provide multilingual options. Users can switch between languages easily and quickly. There is also a built-in database, users can save all the parameters of the tools (including the distance and speed of traversing) in the data base. Saving and loading processes are very quick and easy.

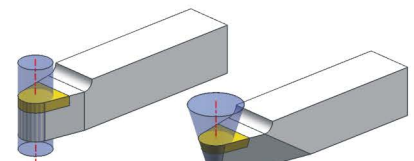


■ 標準T形刀架座

提供多種快速拆換的刀架選擇，也可依照特殊刀具需求製作，並只需使用後方扳手，即可快速鎖定刀架。放鬆下方固定扳手，能快速移動整個刀架座位置或進行拆換。

Standard T-shaped tool stand

We provide several kinds of quick clamping holder which are all very easy to loosen up and change. It can also be custom-made according to the specifications of special tools. Users can use the handle at the back to quickly lock the tool stand. Release the handle at the bottom, then users can quickly move or change the whole stand.



圓柱Conical

圓錐Cylindrical



■ 可調式刀架座(選購附件)

同樣提供快速拆換的刀架功能，同時具備升降位置調整30mm(F軸)以及 $-10^{\circ} \sim 20^{\circ}$ 傾角調整(G軸)，如此搭配機台本身砂輪傾角 $0^{\circ} \sim 25^{\circ}$ (B軸)，即可研磨大傾角之刀具。

Adjust tool stand (Optional accessories)

It can also be quickly disassembled. However, it can move along the F-axis up/down 30mm and users can adjust the G-axis inclination from 10° to 20° . With the machine's B-axis inclination (between 0° to 25°), it would be able to grind tools with large clearance angle.



■ 手動A軸刀架座(選購附件)

夾持圓柄刀具，研磨銑刀、雕刻刀... 各式刀具。

Manual A-axis Rotational tool stand(Optional accessories)

It supports all kinds of tools, including end mill, engraving bits...



■ 拆換式法蘭

直接拆換法蘭，更換不同號數砂輪後，不需一再重複修整砂輪，維持砂輪平整。

Wheel flange with extractor

Users can take down the flange directly and change for a different wheel. There is no need to repeatedly dress to keep the wheel face level.



■ 砂輪修整附件(選購附件)

直接夾持於刀架座上，修整砂輪平整，不需將砂輪拆下。

Wheel dresser(Optional accessories)

Directly clamp on the tool stand to dress the wheel face, There is no need to take grinding wheel down.



煞車式
Brake type



電動式
Motor type



■ 1/8Hp 沈澱式冷卻系統
提供大容量冷卻液循環
1/8Hp standard coolant system

It provides coolant circulation in large quantity



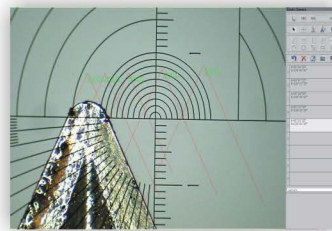
■ 紙帶過濾式冷卻系統(選購附件)
利用過濾紙過濾磨屑，保持切削冷卻液潔淨

Paper filter coolant system
(Optional accessories)

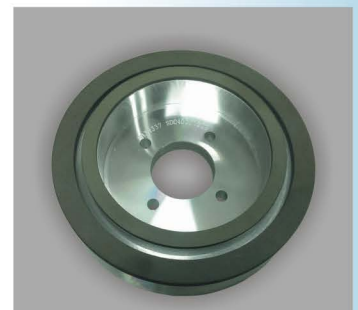
Using paper filter to filter out the grind dust so to keep the coolant clean.



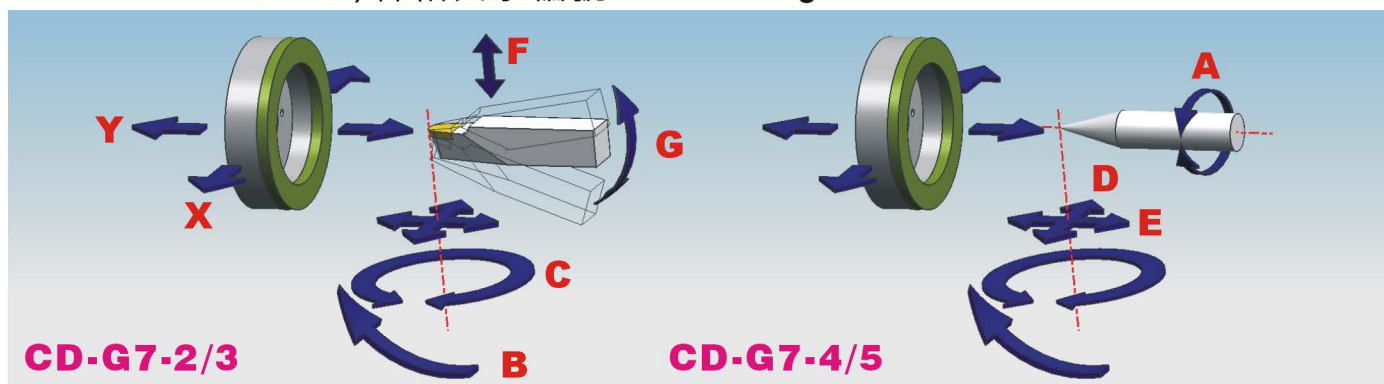
■ 倒稜研磨機(選購附件)
Chamfer jig
(Optional accessories)



■ 機上量測系統(選購附件)
Measurement System
(Optional accessories)



CD-G7各軸表示編號 Numbering for different axes



規格 TECHNICAL DATA

機 種 Model		CD-G7-2 兩軸基本版 2-axis Basic mode	CD-G7-3 三軸版 3-axis mode	CD-G7-4 四軸版 4-axis mode	CD-G7-5 五軸版 5-axis mode
砂輪軸 Wheel head	主軸馬達 Spindle driver motor	2p極 3Hp(2.2Kw)			
	主軸轉數 Spindle speed (60Hz)	0~3,520rpm(程式控制 Program controlled)			
	X軸橫移行程 X-axis Traverse 300mm	伺服驅動(單位0.0001mm)			
	Y軸進給行程 Y-axis infeed 50mm	Servo system (Divisions of 0.0001 mm)			
	砂輪尺寸、法蘭 Wheel size , flange	150 ^Φ ×40 ^H ×40 ^T , 拆換式法蘭 Wheel flange with extractor			
刀架座 Tool stand	D軸橫向移動 D-axis movement 40mm	手動調整 Manual			
	E軸縱向移動 E-axis movement 45mm				
	F軸升降距離 F-axis up/down 30mm	手動調整(選購) Manual (Optional) 可調式刀架(Adjust tool stand)		_____	
	G軸傾角 G-axis inclination -10° ~20°				
工作台 Worktable	B軸傾角 B-axis inclination 0° ~25°	手動調整 Manual			伺服驅動 Servo
	C軸圓周角度 C-axis pivot angle -120~120°	光學尺(手動) Encoder(Manual) (0.05)	伺服驅動 Servo system (0.001)		
	圓周煞車鎖定 C-axis clamp	手動 Manual	程式控制 Program controlled		
A軸旋轉刀具軸 A-axis Rotational 360°		_____		伺服驅動 Servo system	
觀測系統 Vision system		螢幕搭配CCD顯微系統 TV ,CCD Video scope system			
彩色人機觸控寬螢幕 Touch screen (HMI)		7吋 7"color LCD		10吋 10"color LCD	
冷卻系統 Coolant system		沈澱式冷卻水系統 Standard coolant system			

機身尺寸(長×寬×高) Measurement (LxWxH): 1600 x 1500 x 1900 mm (不包含冷卻裝置 without Coolant System)
機械重量 Machine weight: 1080 Kg

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