

# SolidCAM – 實體 加工平台

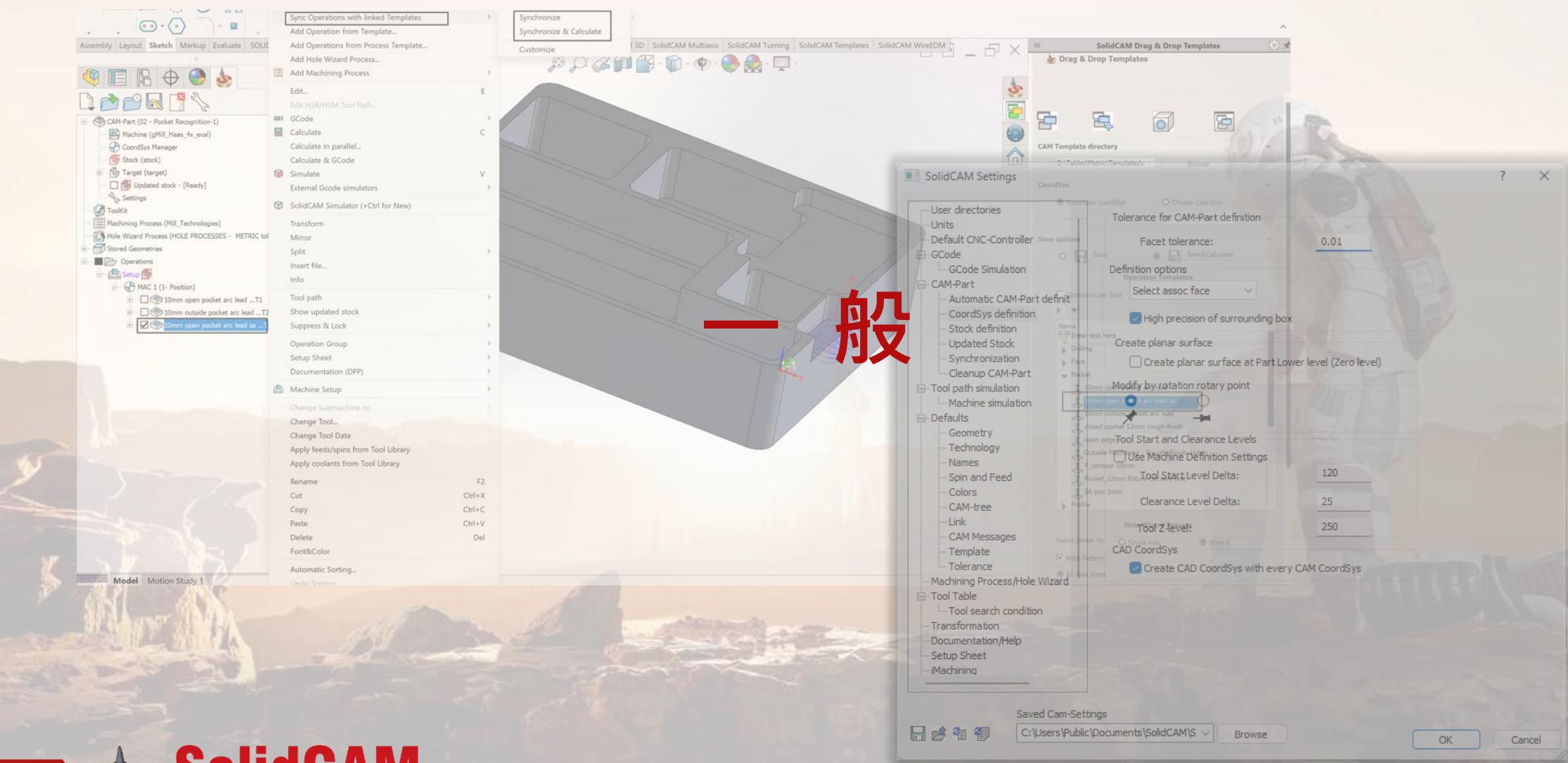
## SolidCAM 2025 SP2 新 增 功 能



**i**machining®  
The unique, revolutionary Milling technology  
patent by SolidCAM

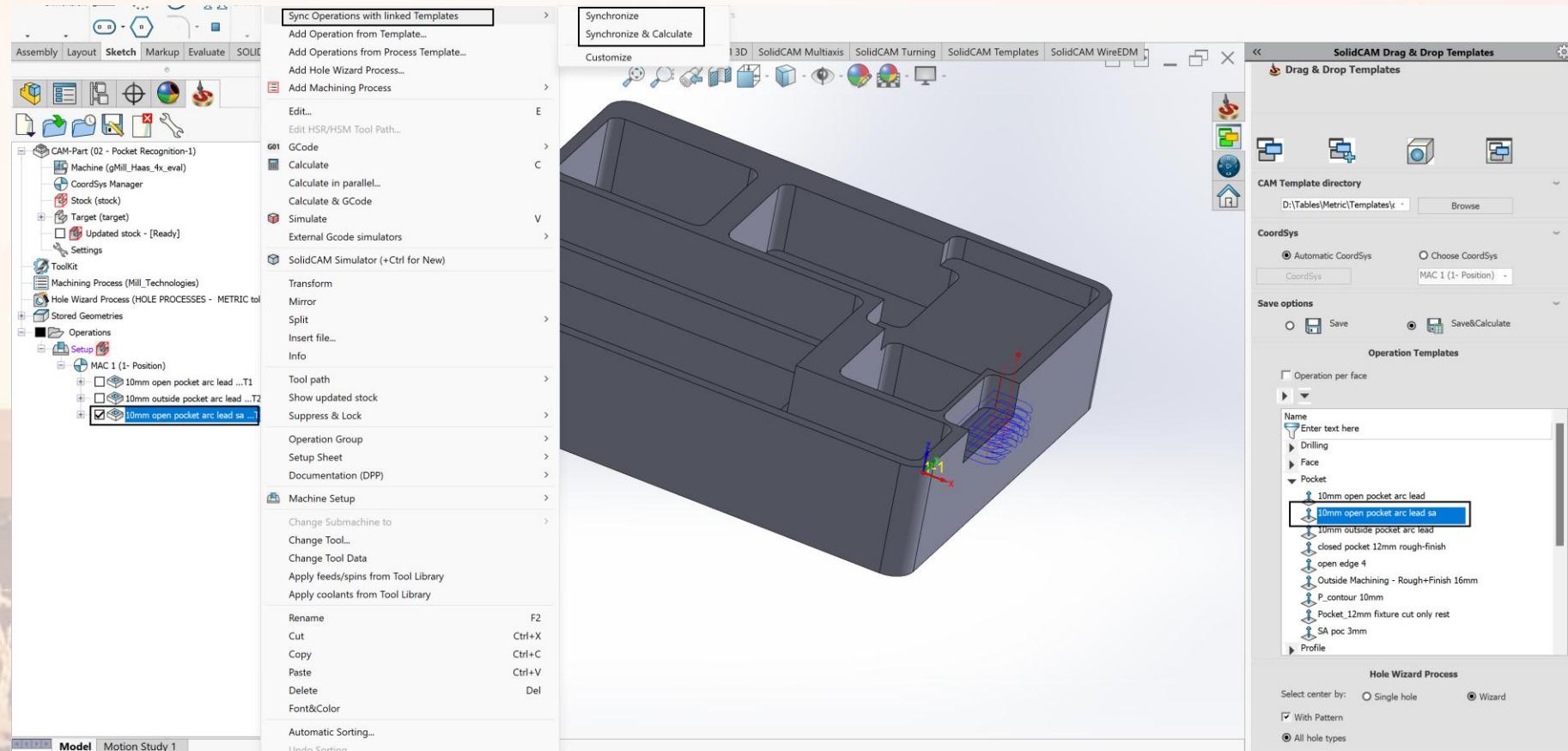
**SolidCAM**®  
MillTurn & Swiss®

**SolidCAM**  
Additive Manufacturing



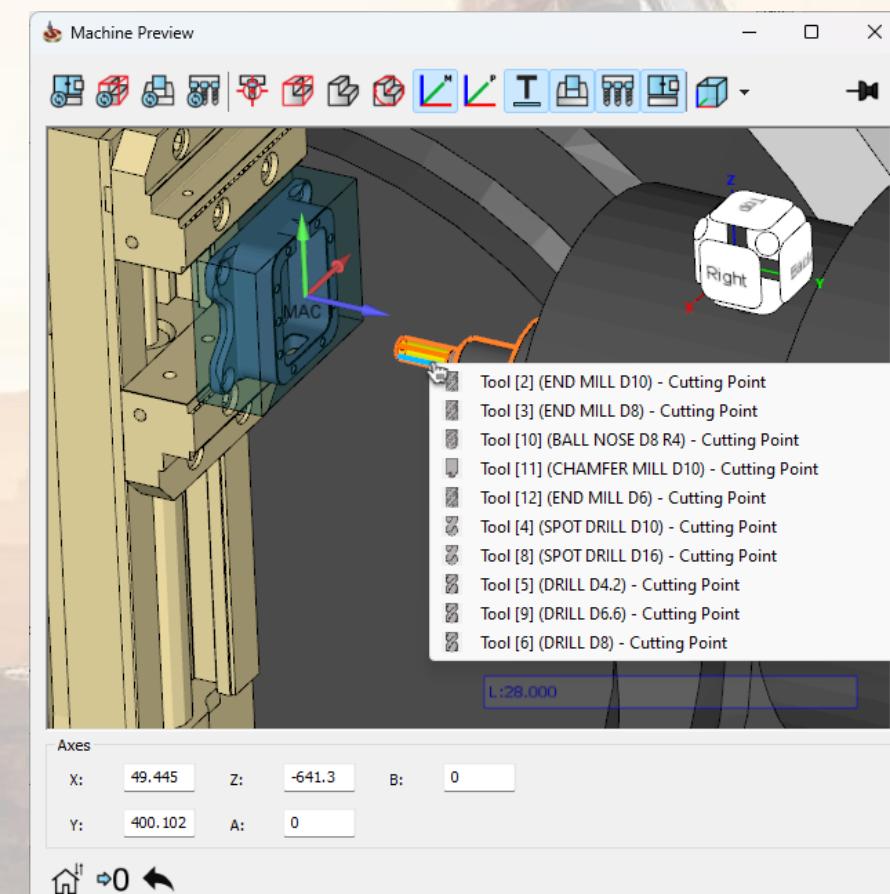
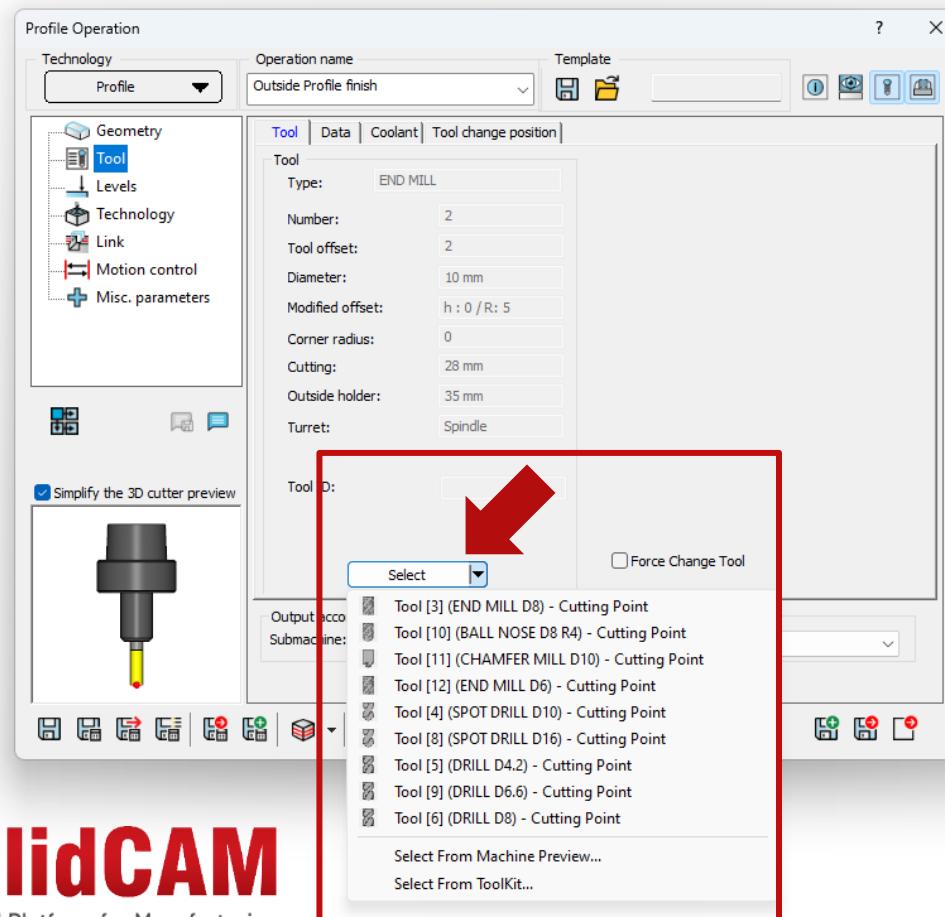
# 將操作同步到其更新的模板

- 現在，您可以使用在模板中所做的變更來更新使用模板的操作



# 在操作中快速選取刀具

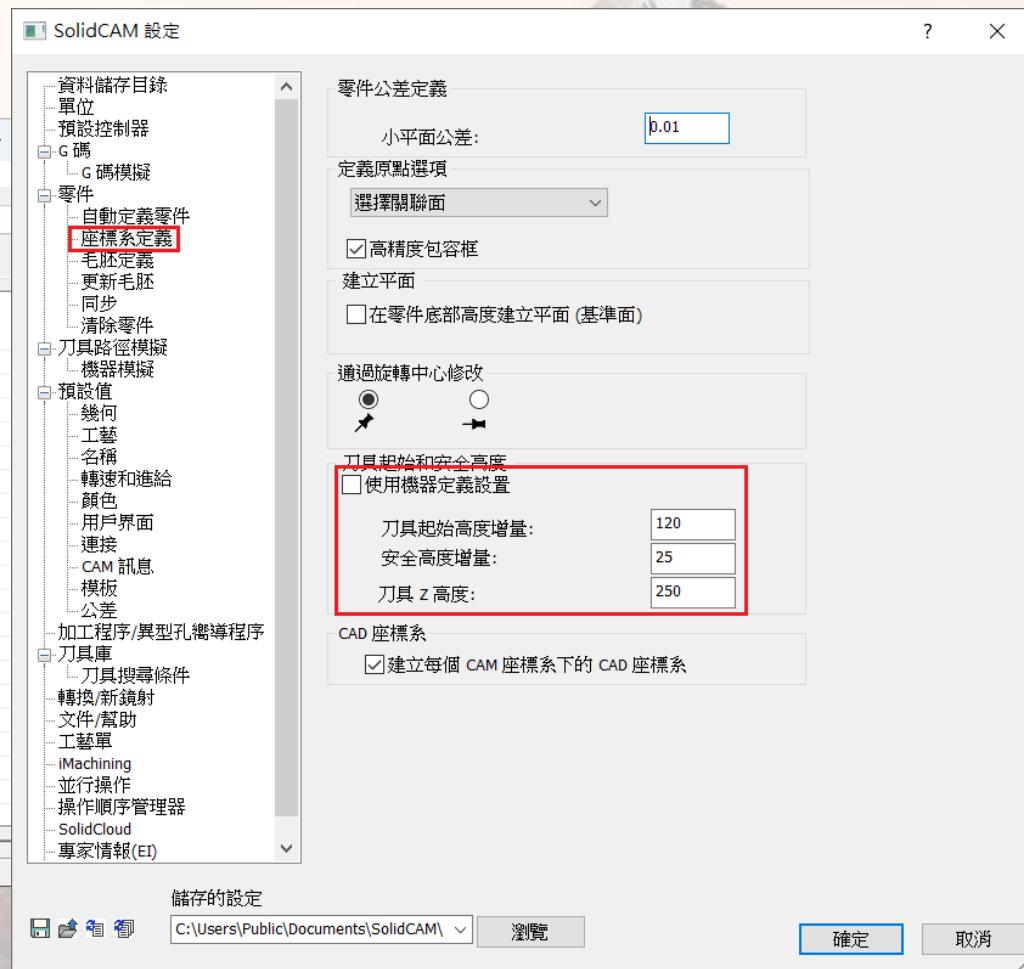
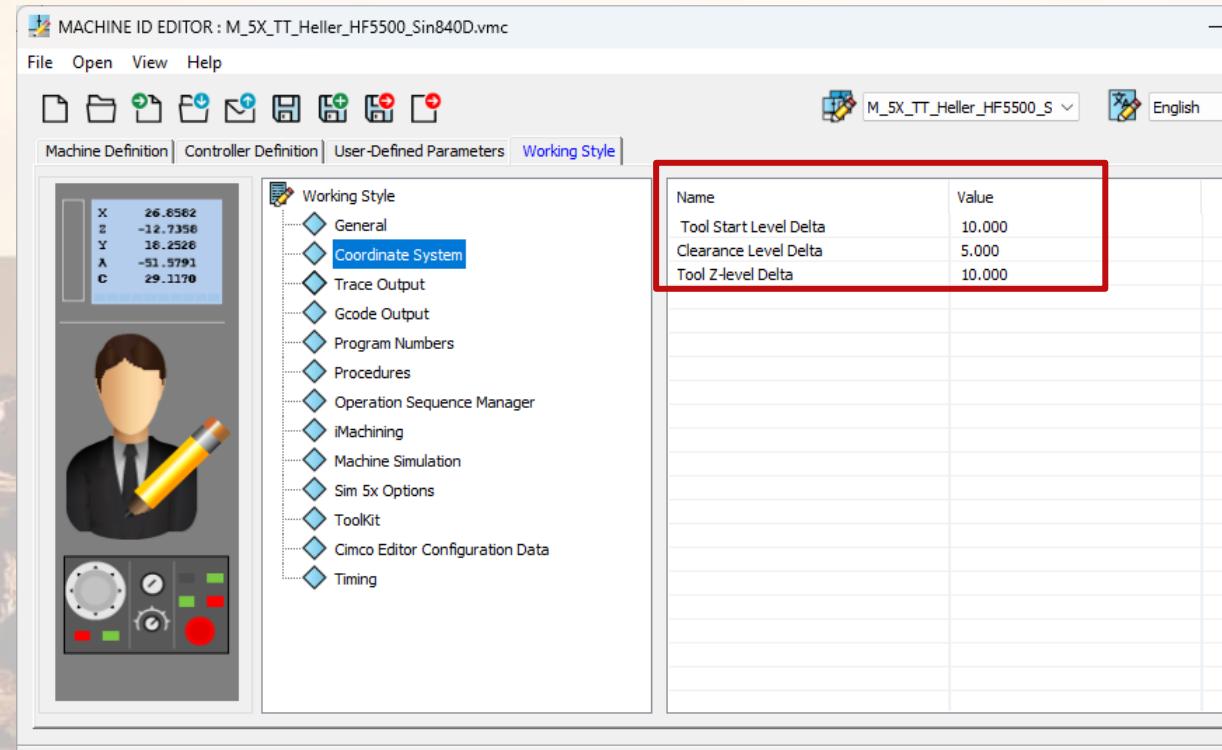
- 從快速刀具選取表單中選取刀具的選項
- 從機器預覽中快點兩下選取刀具的選項



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# SolidCAM 設定 – 各機台的安全高度

- 新增設定於定義每台機器的安全高度的預設值，新增在 SolidCAM 設定中觸發是否使用機器設定或全域設定



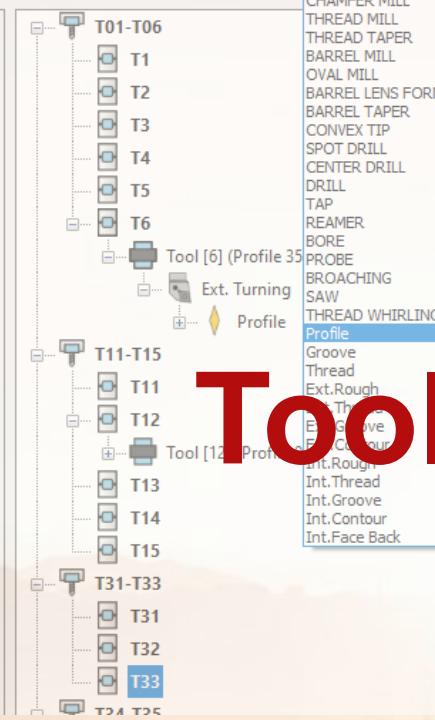
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TOOLKIT : AS-TA-MU-B  
File Edit View Help



Tool Type

Profile



Profile



Groove



Thread



# ToolKit 刀具庫



Import Tool Assembly From CAD

Export To Folder:

C:\Users\Public\Documents\SolidCAM\SolidCAM2025\Tables\Tools Libraries

Resolution:

Minimal Edge Divided by:

25

Surface Divide by Angle:

15



Generate As Milling Tool

Generate As Turning Tool

Generate As Fixture

[1] (END MILL D10)

HSK-A63-EM16X80

MM-S-A-L065-W16-T06.1

MM-CAB-T06.1

Change to holder

Change to shank

Change to tool

Change Reference CoordSys

Change resolution

Switch Connect to Joint with Mounting Data

Select Identical Components

Rename

Remove

<Default>

CS Holder

CS Shank

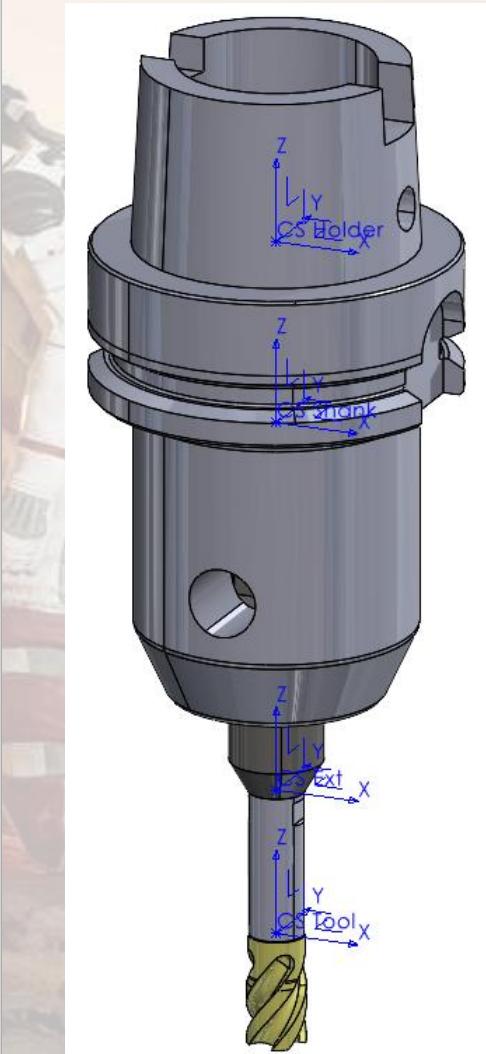
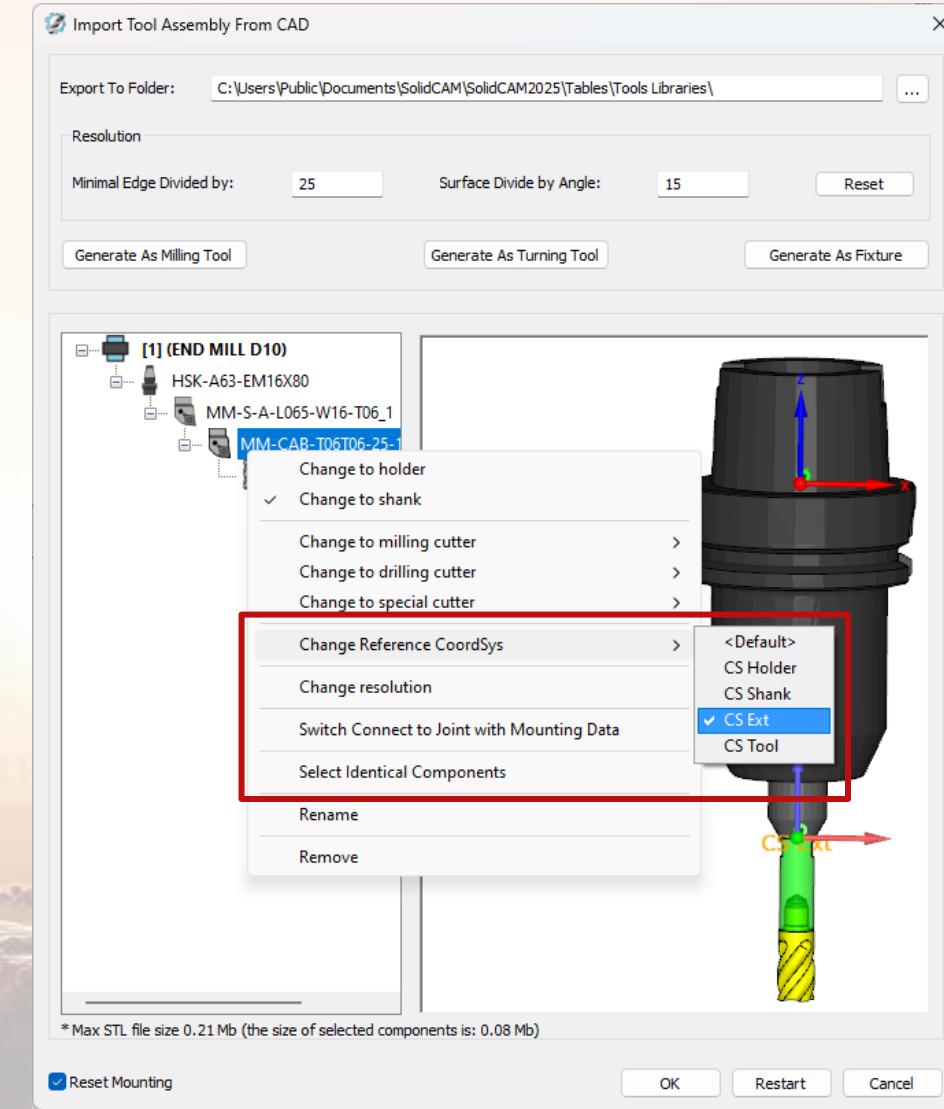
CS Ext

CS Tool

CS Ext

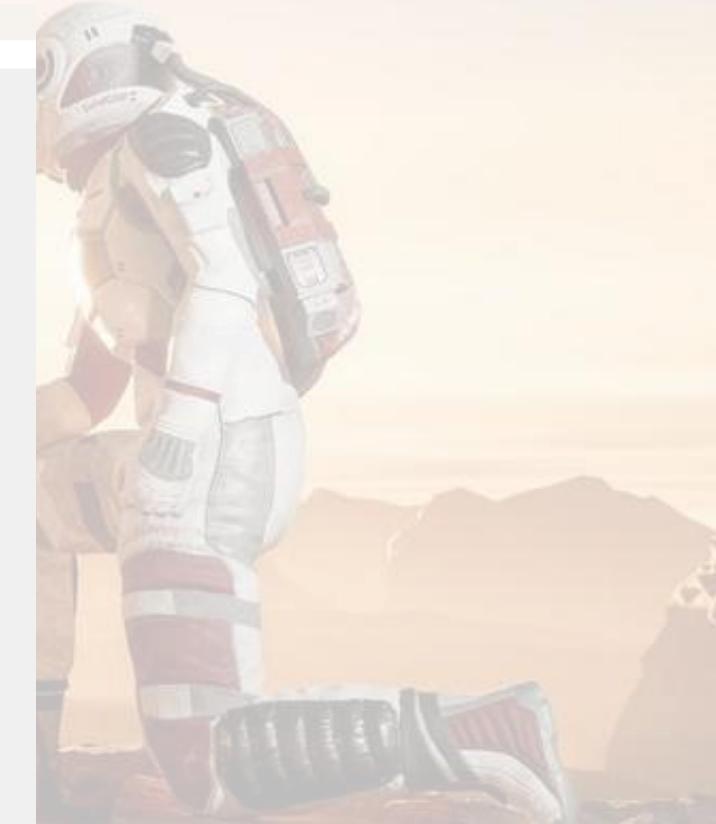
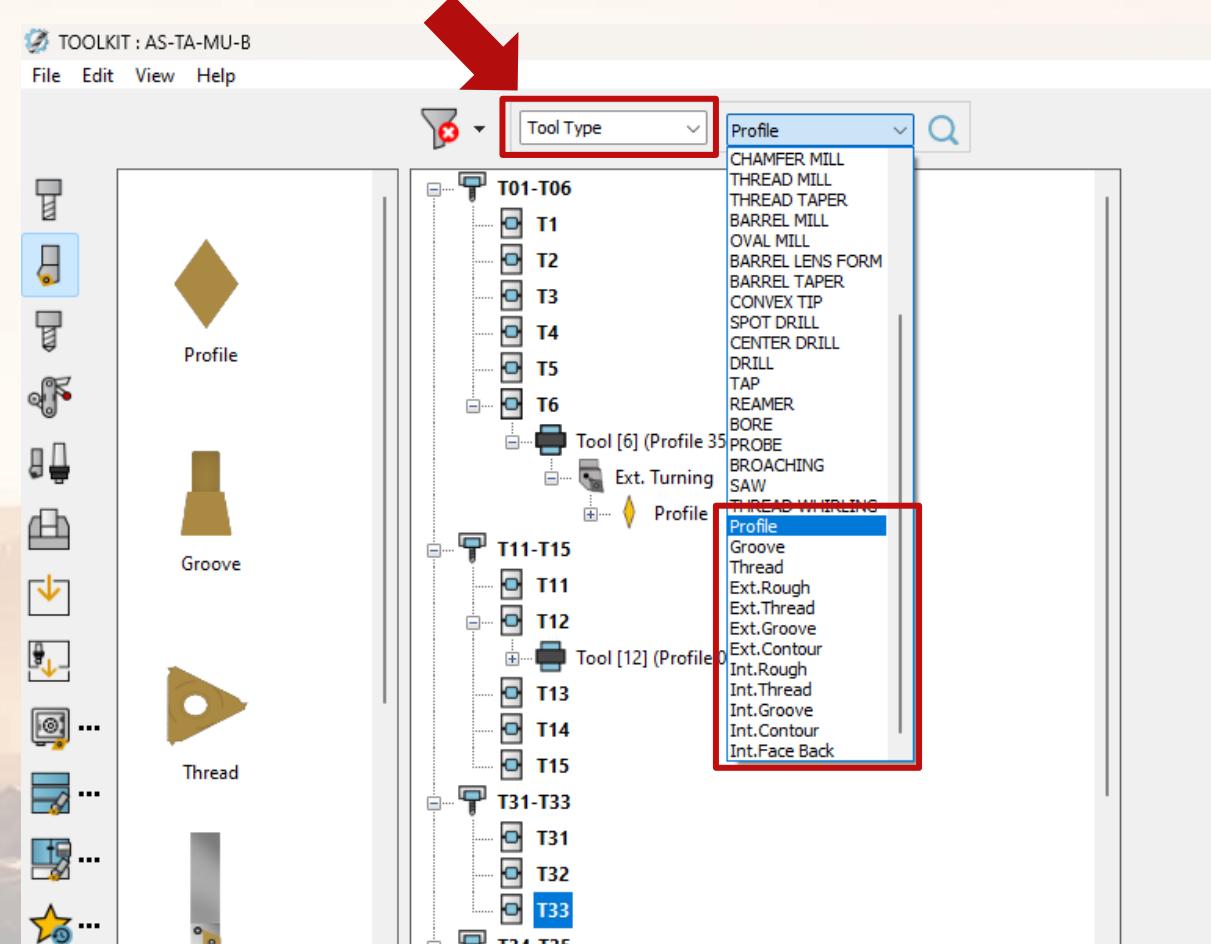
# 刀具庫 - 改善從 CAD 汱入組件的功能

- 拖放邏輯的重構
- 增加透過安裝移位或接頭連接組件來保持組件之間關係的可能性
  - 使用連結至接點資料進行安裝 (預設) (安裝 = 0, 0, 0 但接點發生偏移)
  - 通過安裝數據連結至接點 (新) (接點 = 0, 0, 0 但安裝發生偏移)
- 增加選擇相同組件的可能性 (對於刪除典型組件很有用)
- 增加更改各刀具組件解析度的可能性
- 增加關於最大 STL 大小的資訊
- 增加新增零件安裝點的可能性 (在夾具組裝的情況下)



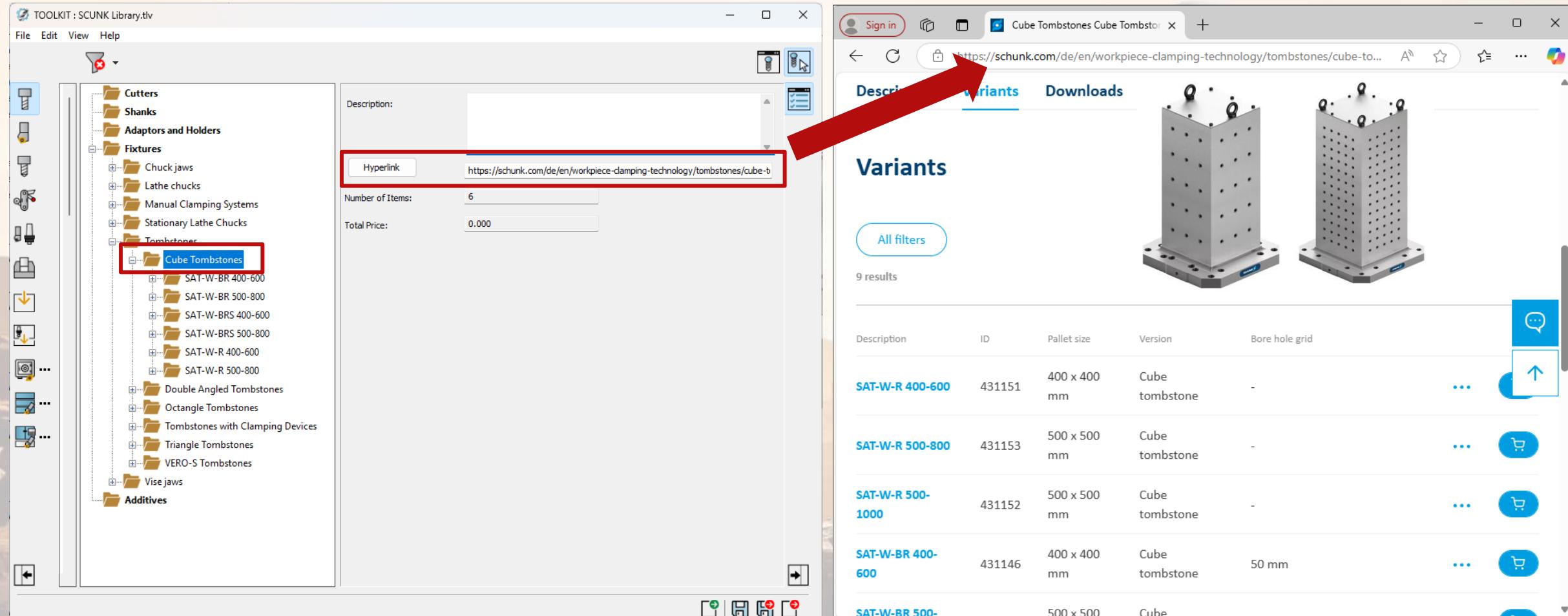
# 刀具庫 - 車刀新增快速篩選器

- 在快速篩選器中增加過濾車刀功能

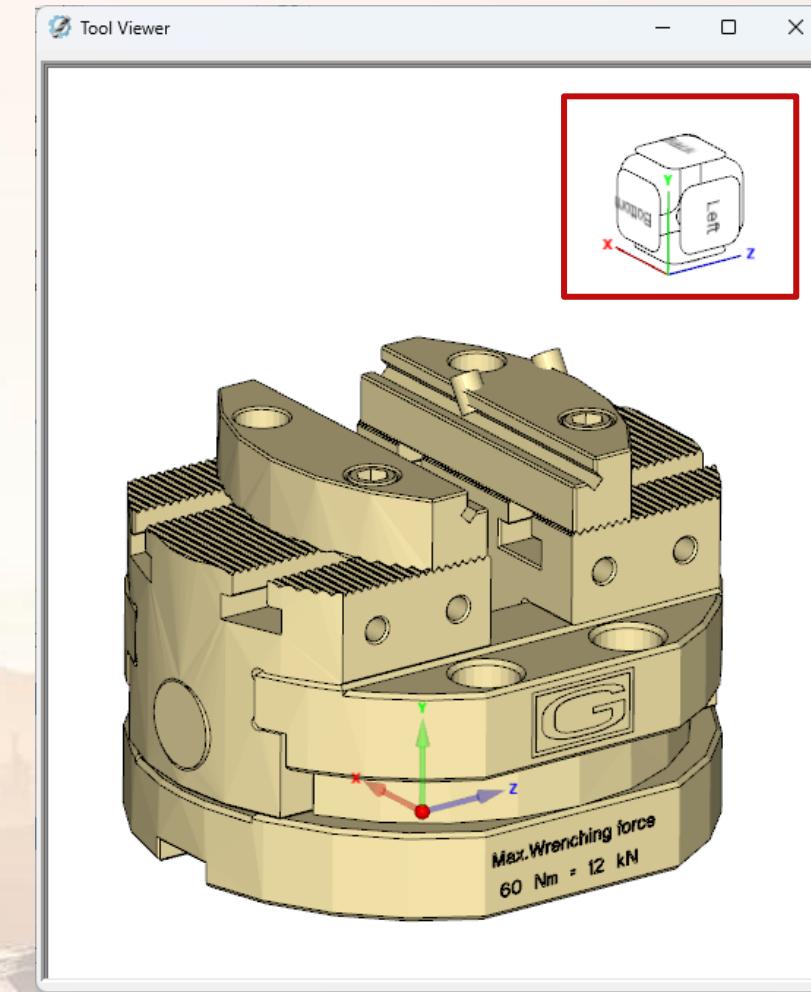
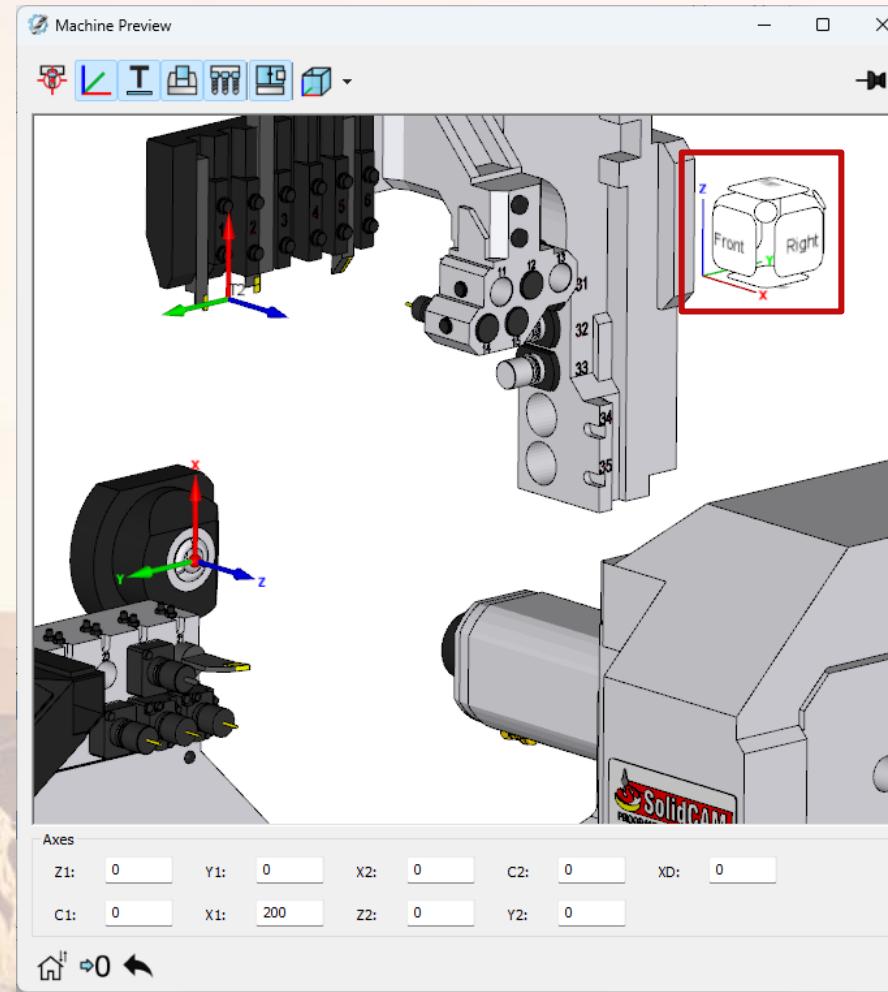


# 刀具庫 - 在資料夾中新增超連結

- 刀具庫 - 資料夾增加了超連結,有助於更輕鬆地訪問主網頁

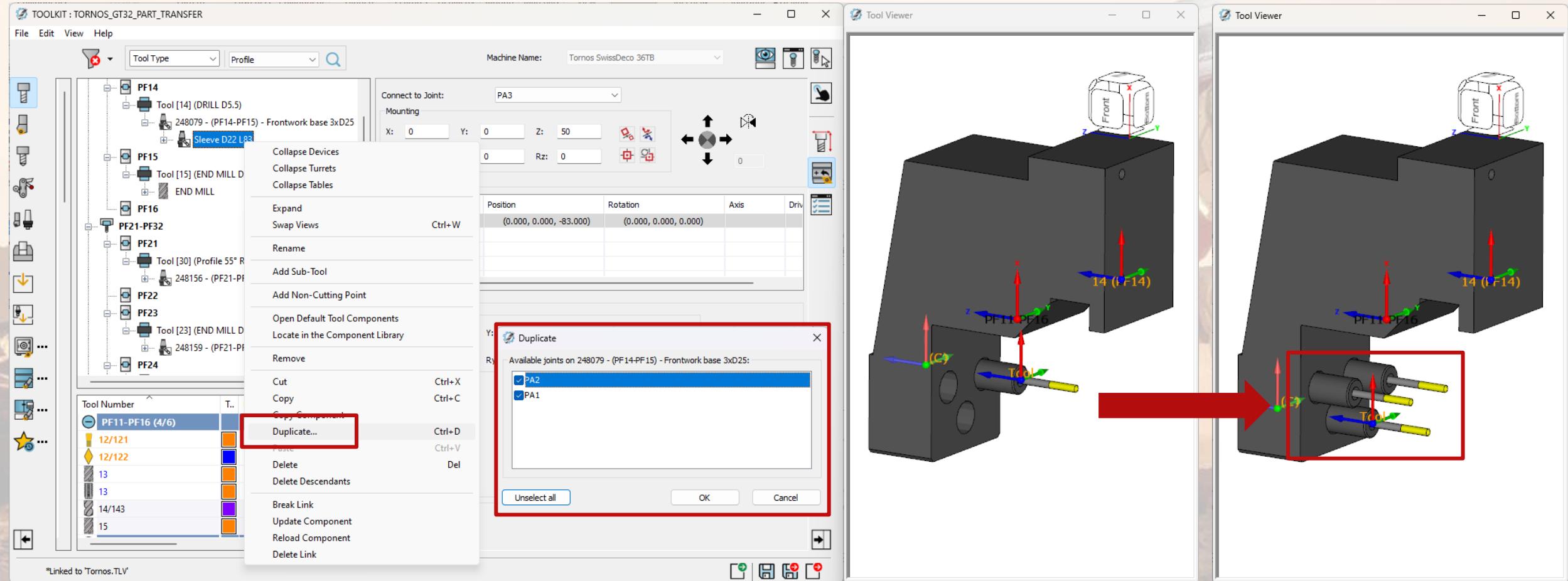


# 在刀具檢視器 和 機器預覽 中新增了 方向立方體



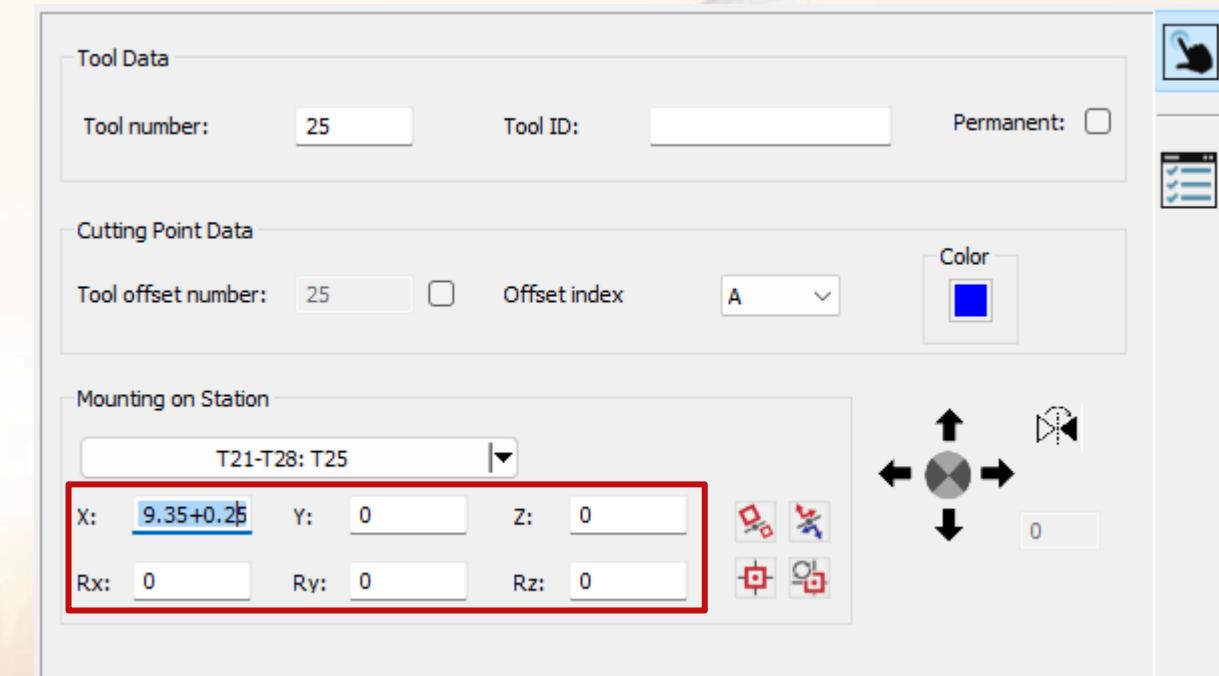
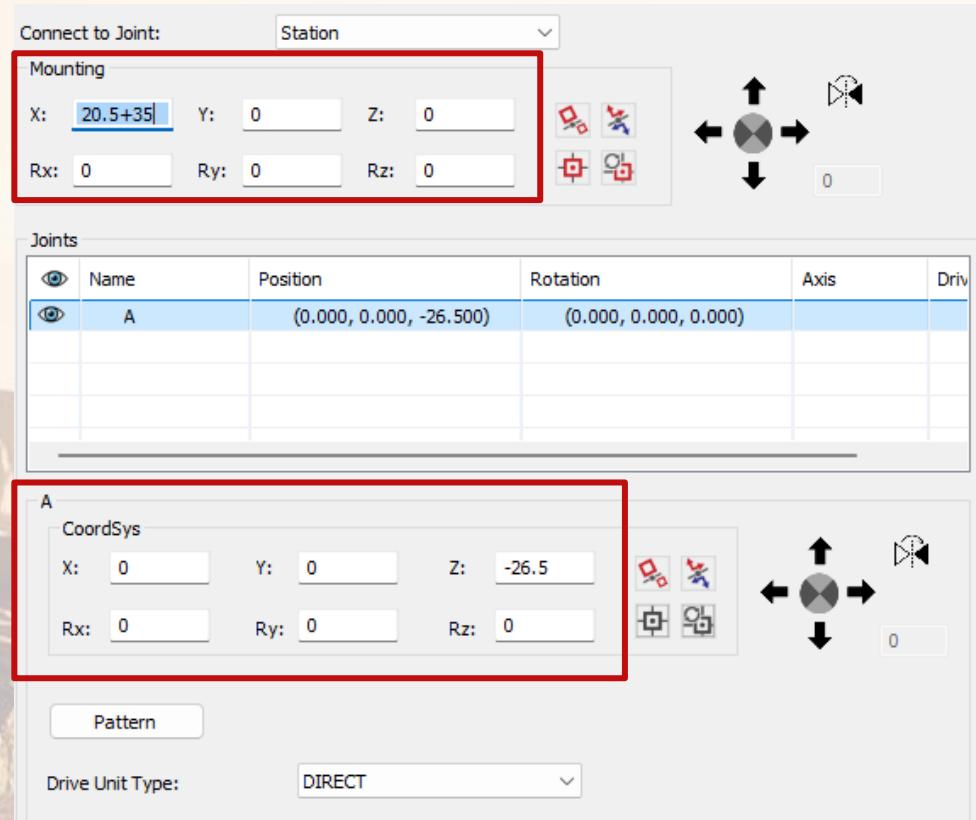
# ToolKit 刀具庫- 複製 (duplicate) 功能

□ 增加在多個接點上複製組件的功能！



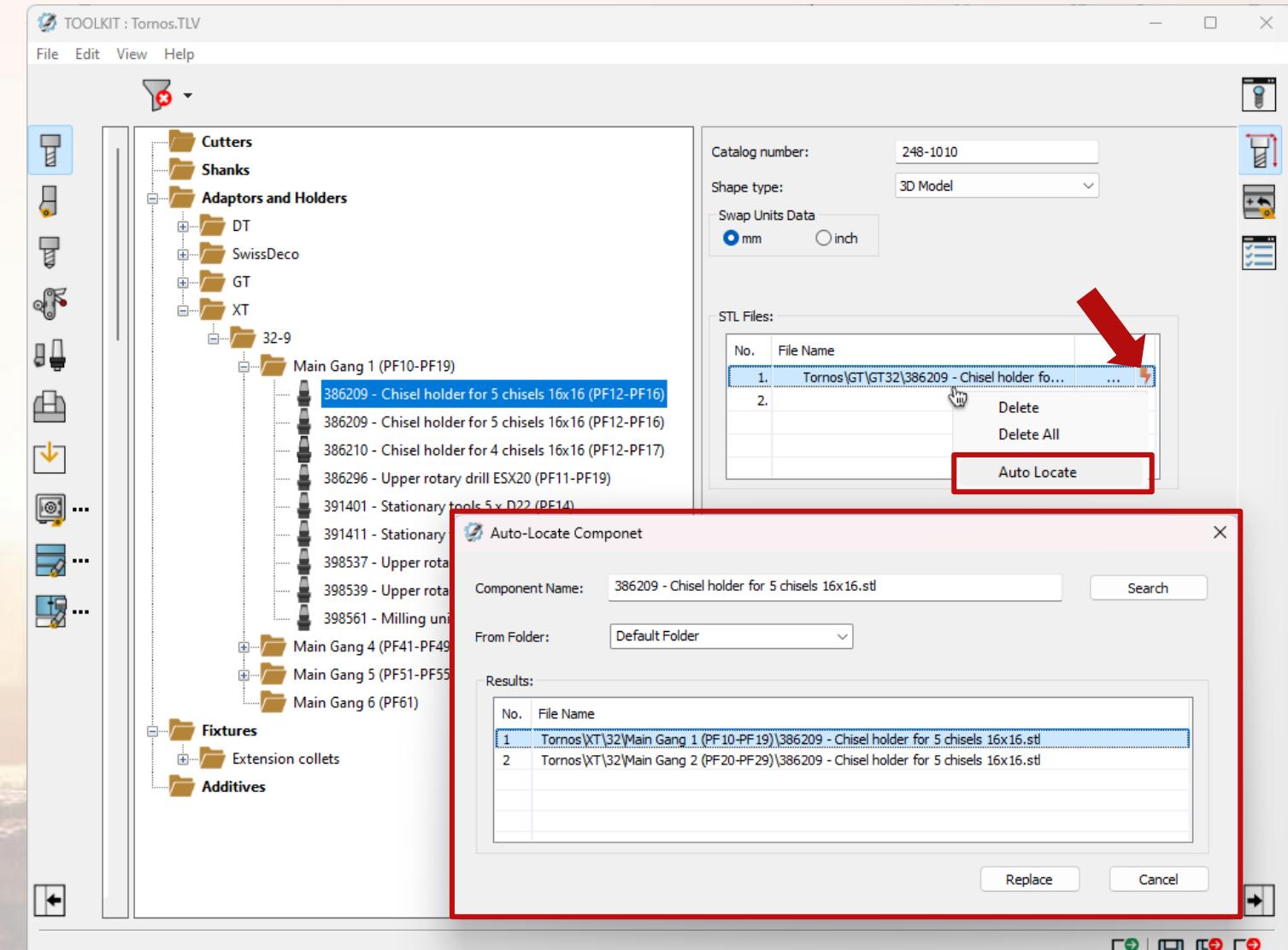
# ToolKit 刀具庫 – 輸入數值欄位支援 方程式模式

## □ 連接和快速訪問頁面現在支援方程式模式



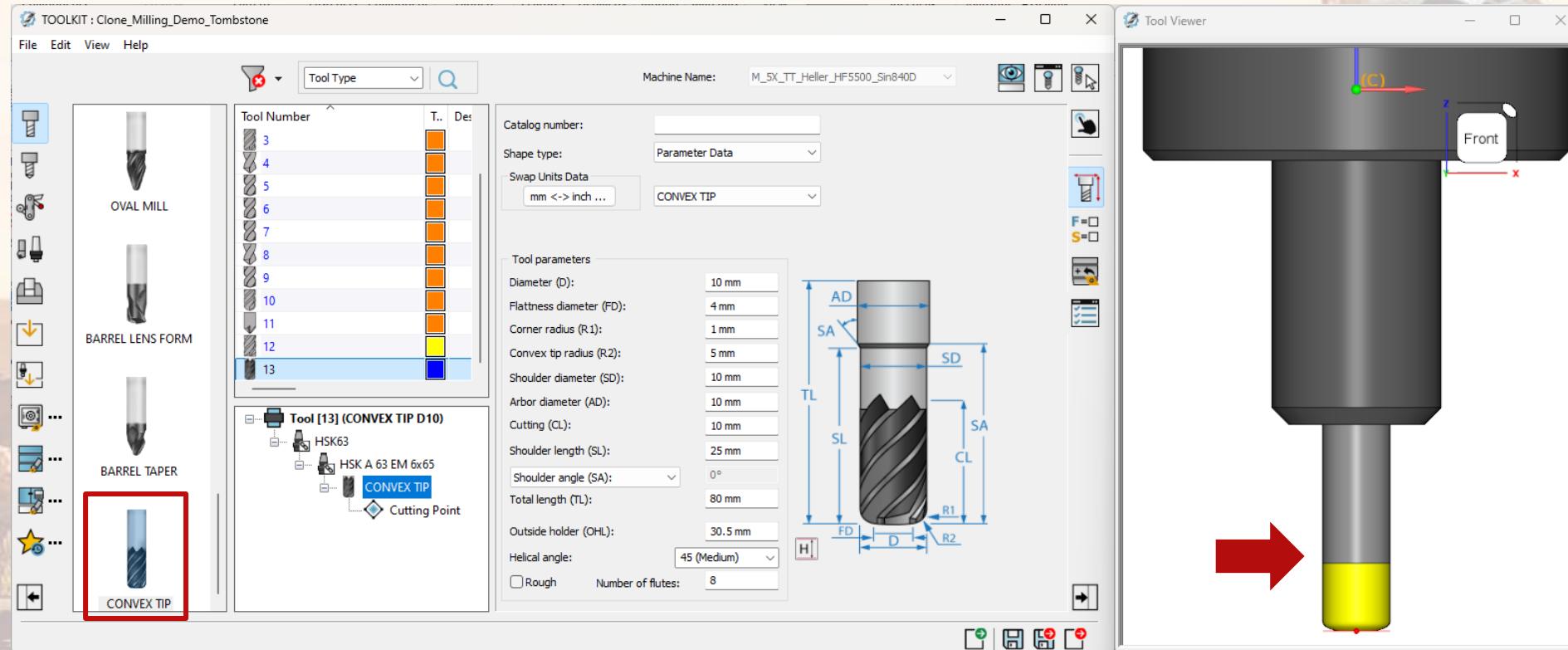
# ToolKit 刀具庫-自動定位模型組件

- 引入自動定位功能，輕鬆定位定義路徑中缺少的組件
- 可以透過右鍵點選檔案名稱路徑或點選  符號來自動定位。
- 路徑中缺少的 3D 模型以  符號標示。
- 自動定位會自動填入組件名稱並顯示找到的位置的結果



# ToolKit –複合式圓鼻刀(Convex Tip Mill)

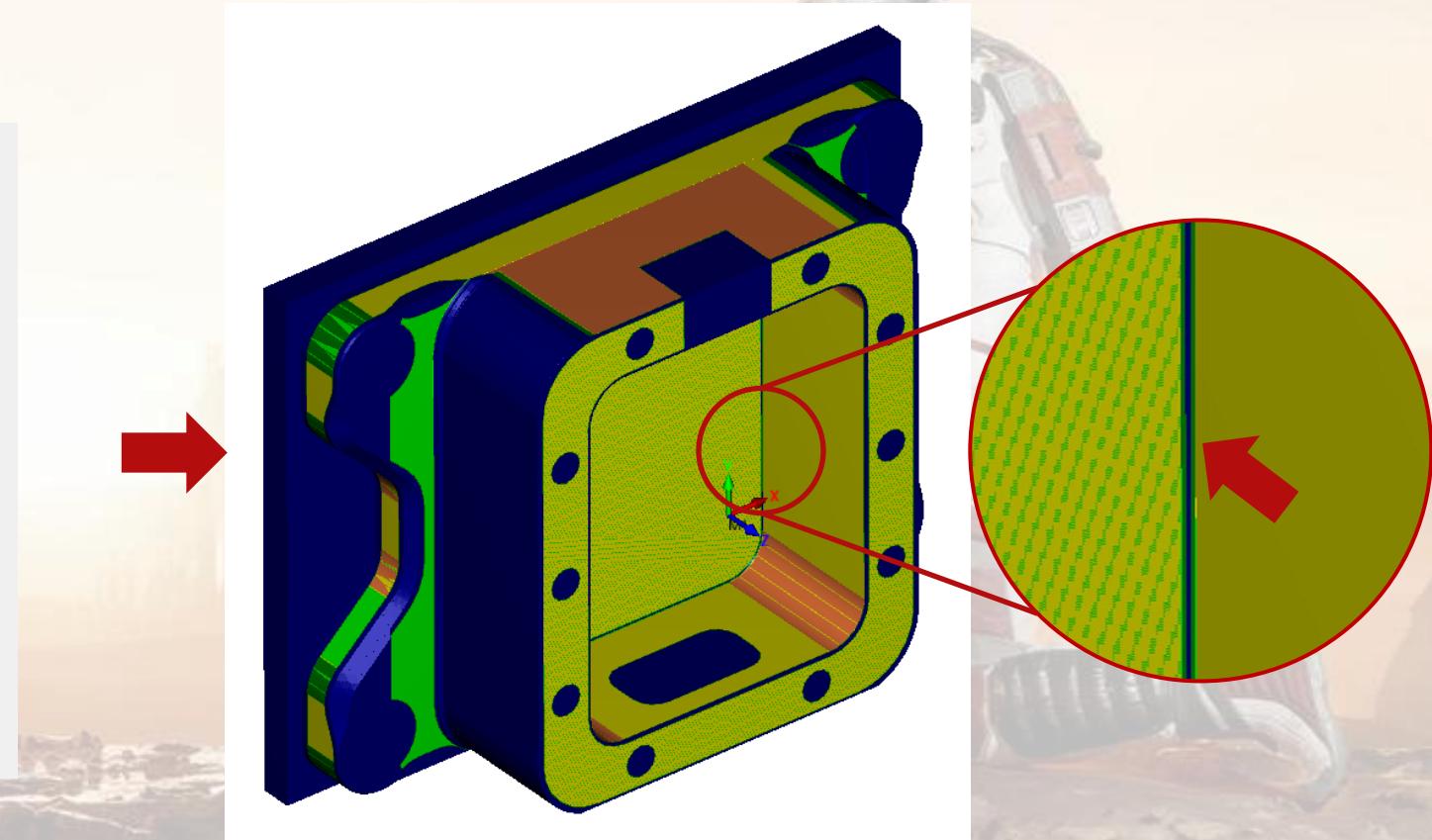
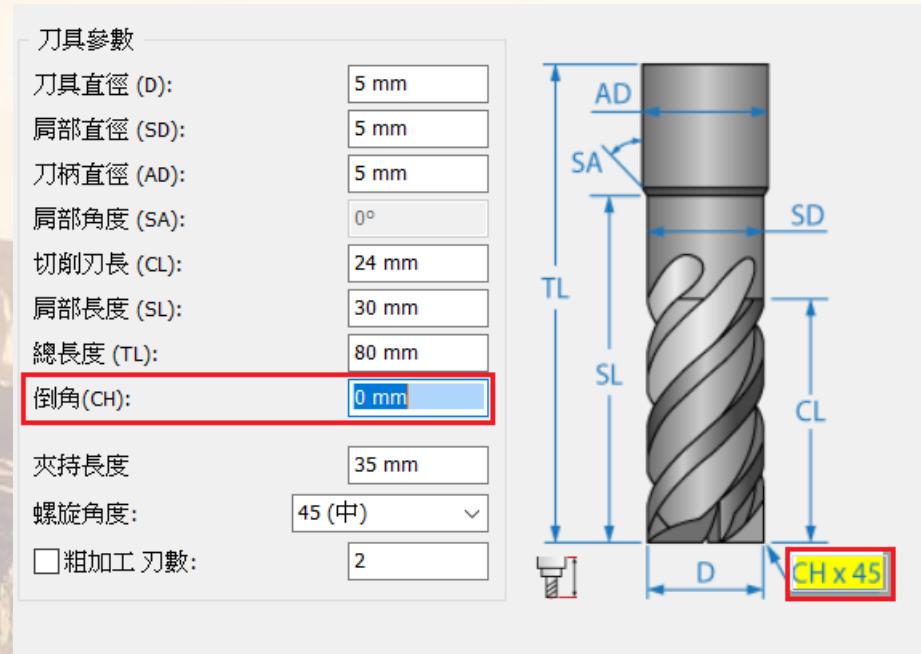
- 新增新的刀具類型:複合式圓鼻刀 (Convex Tip Mill) (高速進給端銑切削)
- 支援 3軸 與 5-軸 工法 (HSS, Pro 3D HSR, Pro 3D HSM 與 3+2 銑削)



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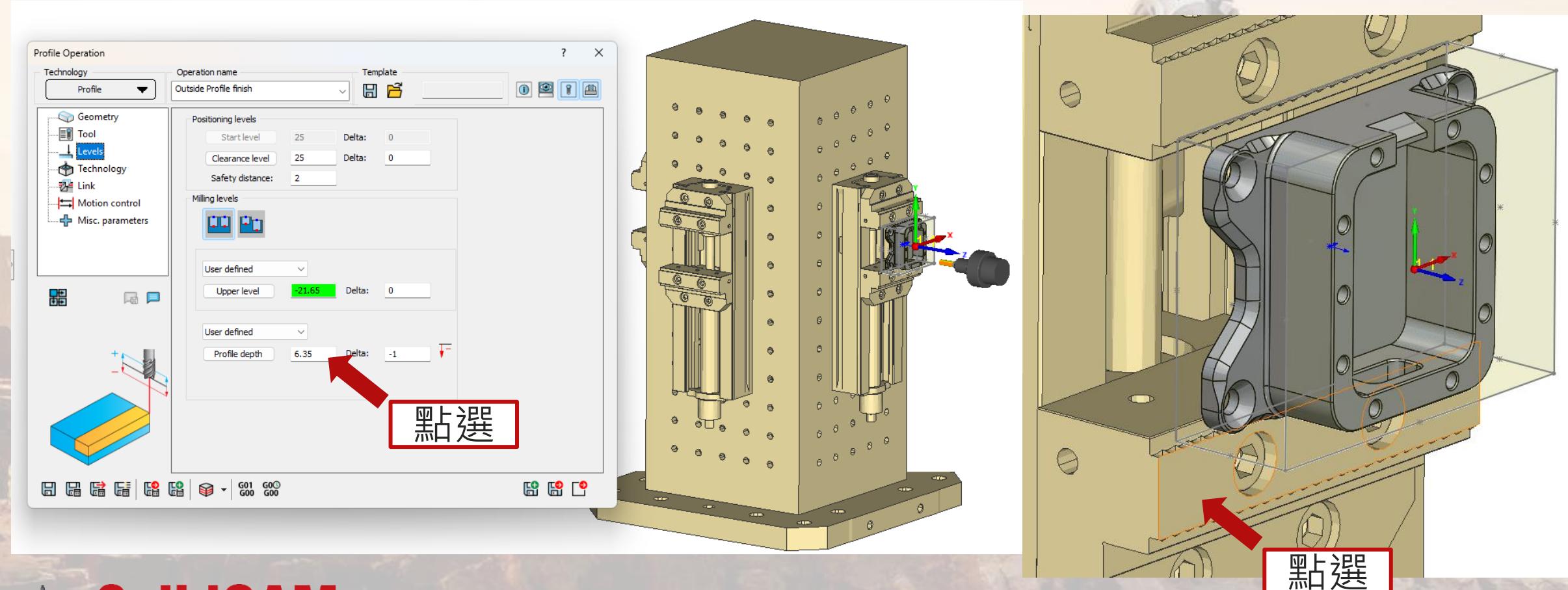
# ToolKit 刀具庫 – 新增 端銑刀 倒角定義

- 倒角 (CH) 現在是端銑刀允許定義刀具角落的參數
- 剩餘材料顯示在需要通過實體驗證和模擬進行精加工的區域。



# 操作 – 允許從3D夾具中點選設定高度

- 可以透過選擇 3D CAD 環境中顯示的夾具（來自刀具庫）來定義 高度 (無關聯性)



## ToolKit 刀具庫- 複製 切削條件

- 現在可以允許從刀具至刀具間的執行 **多重選擇** 與 **複製/貼上** 切削條件.

	Name	Work Material	Applications	Feeds	Spins	Comments
<input type="radio"/>	Default					
<input checked="" type="radio"/>	Aluminum_100...	Aluminum_100	MILL, TINN and T...	Fnorma:0.1m...	Snormal:...	
<input type="radio"/>	Bronze CDA				Snormal:...	
<input type="radio"/>	Free Steel				Snormal:...	

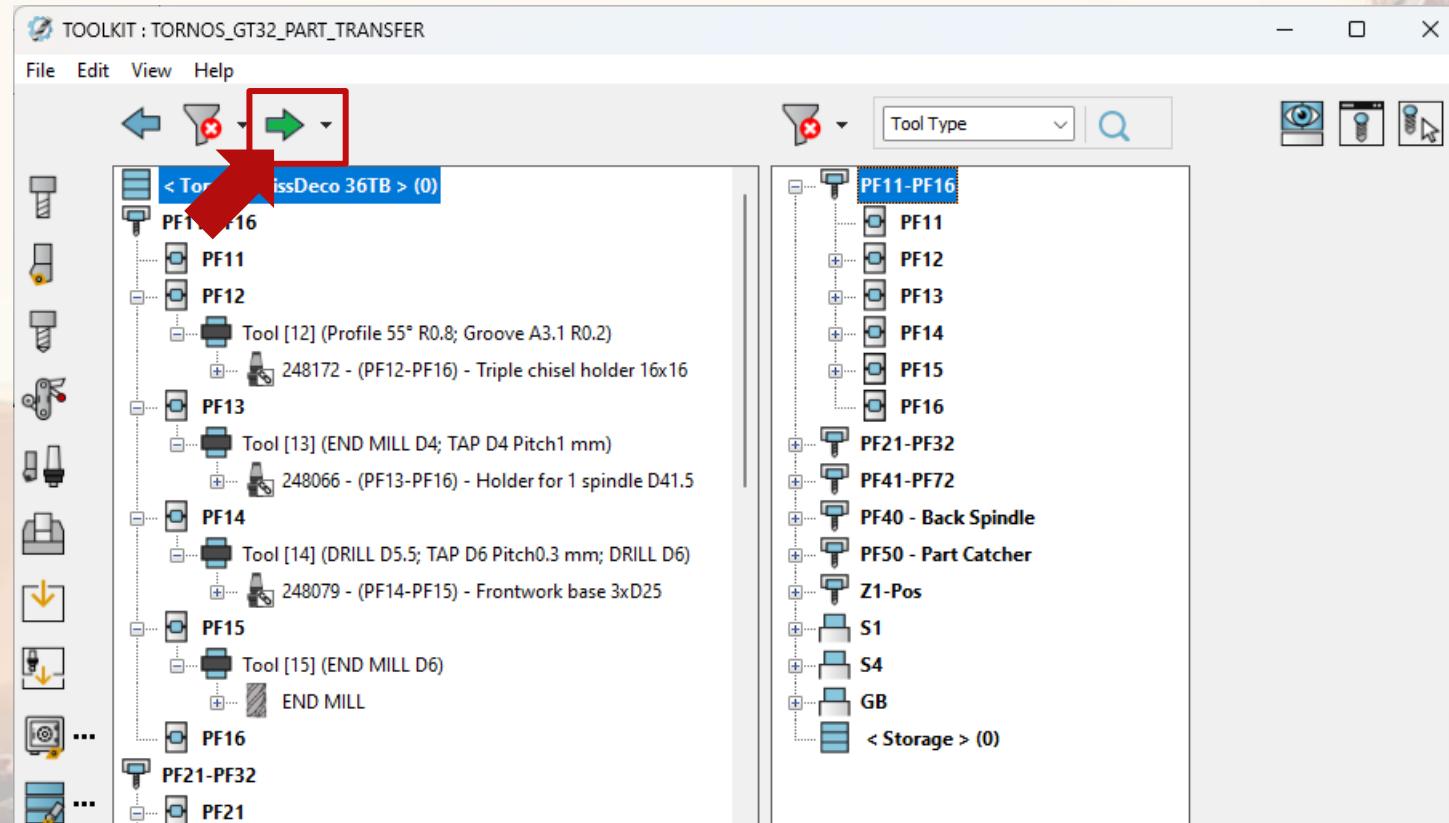
## 刀具 1

Name	Work Material	Applications	Feeds	Spins	Comments
Default		MILLING and T...	Fnormal:0,1m...	Snormal:...	
Aluminum_100...	Aluminum_100	MTU TMC and T...	Fnormal:0,1m...	Snormal:...	

## 刀具 2

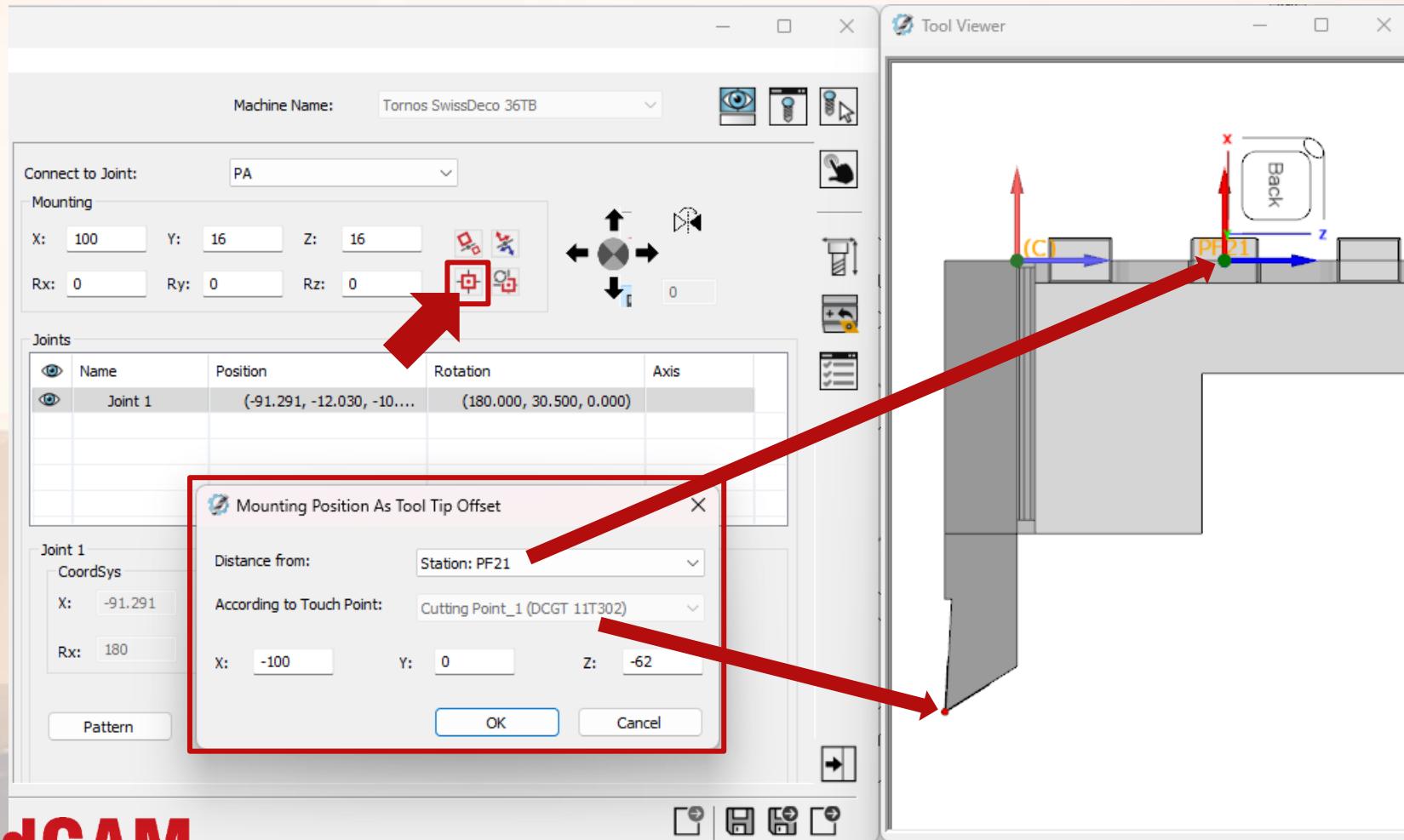
# ToolKit 刀具庫 – 簡化從TLM載入刀具的過程

- 增加從 **TLM** 庫透過點擊將所有刀具匯入到其對應刀位功能
- 還可以選擇僅在**特定刀塔**上裝載刀具

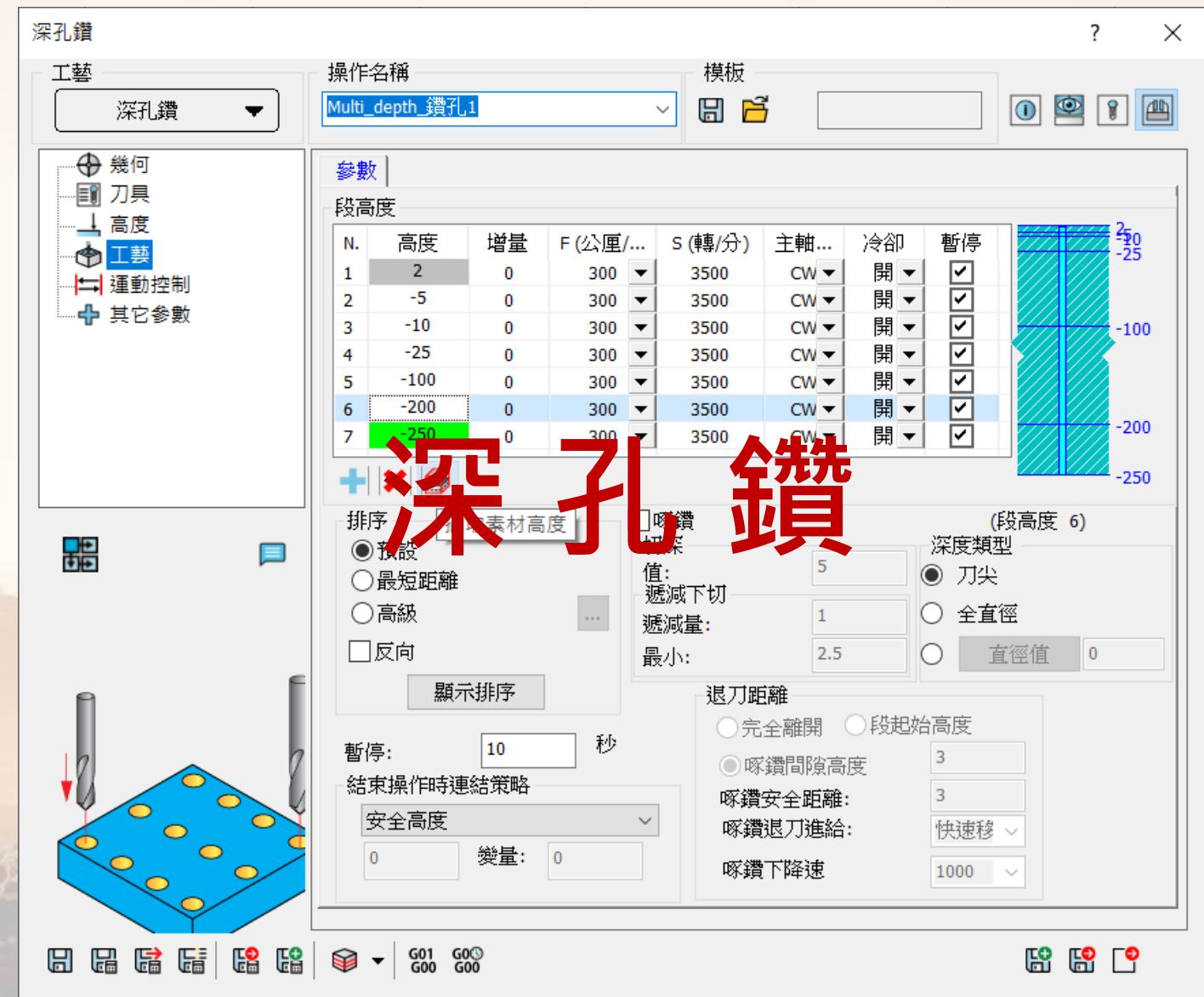


# ToolKit 刀具庫- 設定位置 視覺改善

- 使用 設定位置 時, 僅相關座標系顯示在刀具檢視器中

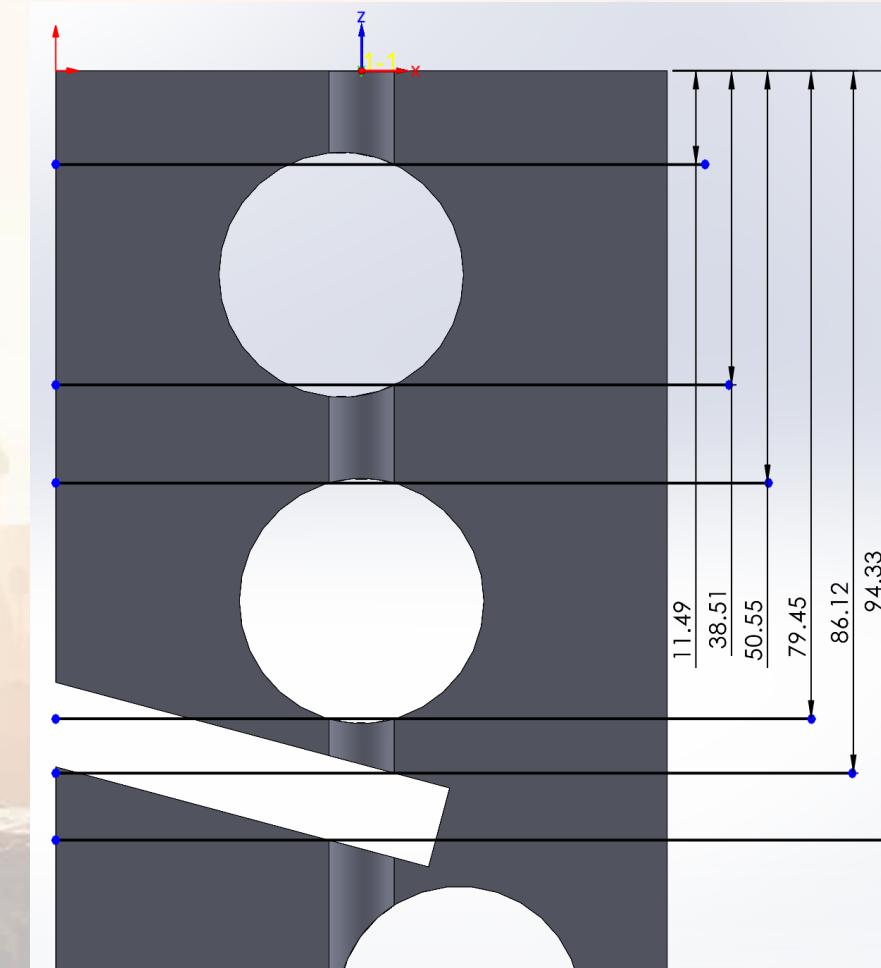
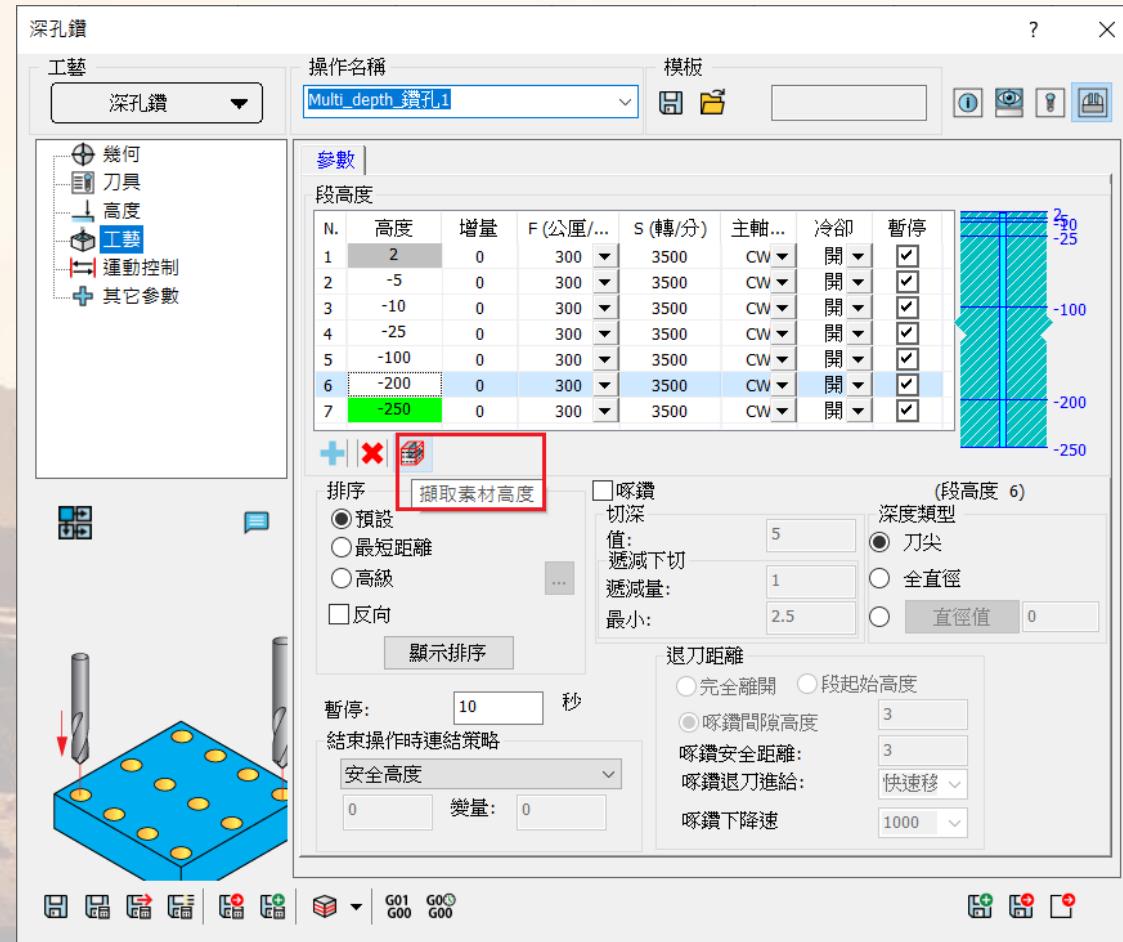


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# 深孔鑽 – 高度 可使用 更新素材 自動設定

- 在 深孔鑽 中選擇高度時,目前你只需點擊‘擷取素材高度’按鈕即可自動尋找到高度.



修改鑽孔幾何

幾何

(X) 1	74.491 ;	80.000
(X) 2	135.509 ;	80.000
(X) 3	188.879 ;	34.217
(X) 4	185.000 ;	15.000
(X) 5	119.825 ;	157.717
(X) 6	90.175 ;	157.717
(X) 7	21.121 ;	34.217

孔偏移

X 偏移: 0

Y 偏移: 0

套用到全部

2D-Boundary

Add Boundary

僅包含邊界孔

僅排除邊界孔

忽略邊界

The Future of CAM

操作名稱: D\_drill19 模板: Drill\_6mm\_Peck.tmp

幾何 | 毛胚 | 夾治具 |

辨識毛胚模式

標準鑽孔模式

辨識毛胚模式

幾何

座標系: 機器座標 1 (1- 位: drill19)

編輯幾何/工作區域

修改

2D-Boundary

Add Boundary

僅包含邊界孔

僅排除邊界孔

忽略邊界

3D Model of a blue cube being drilled, showing the tool path and a yellow hole being created.

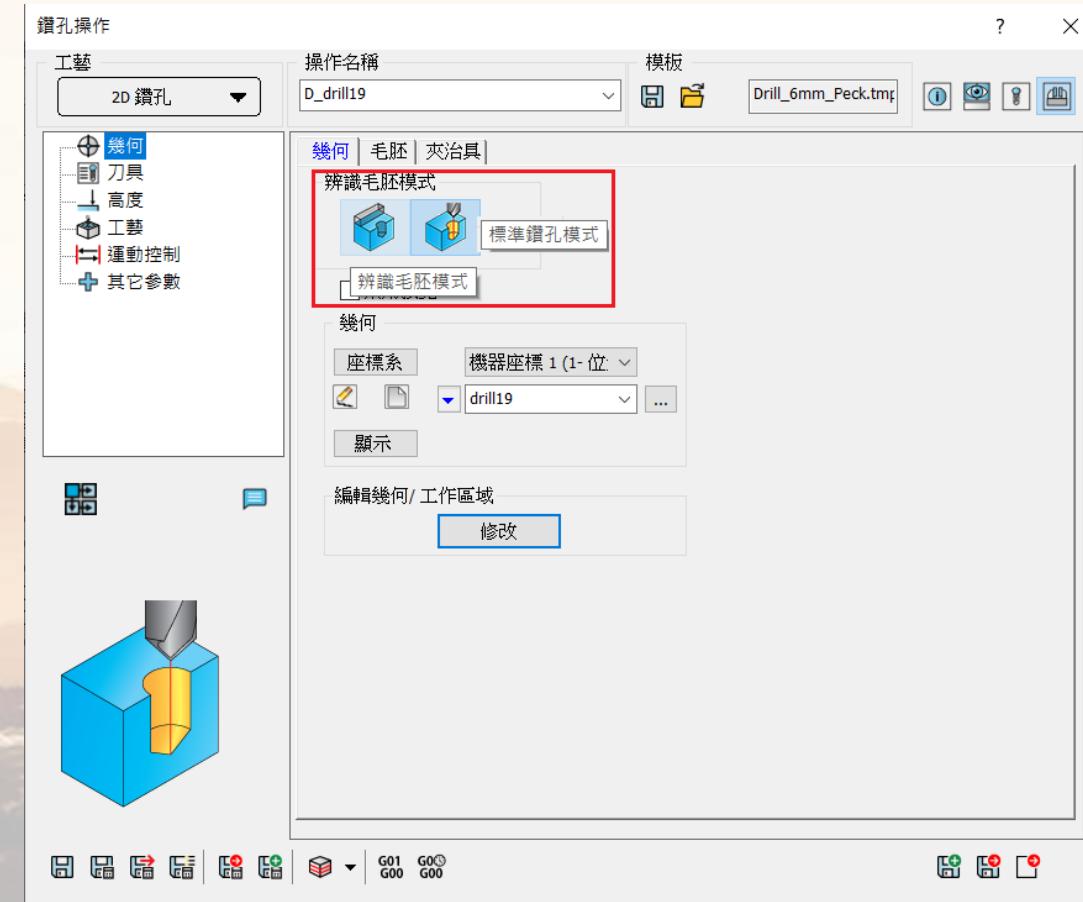
Toolpath icons: G01, G00, G00, G00, G01, G00, G00, G01, G00, G00.

22

camright.com

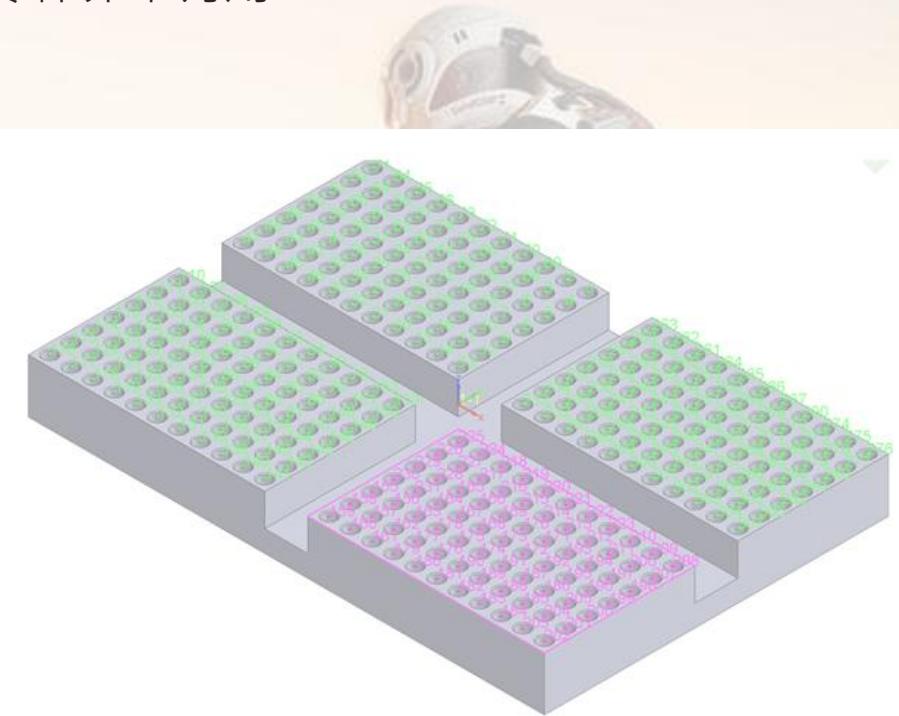
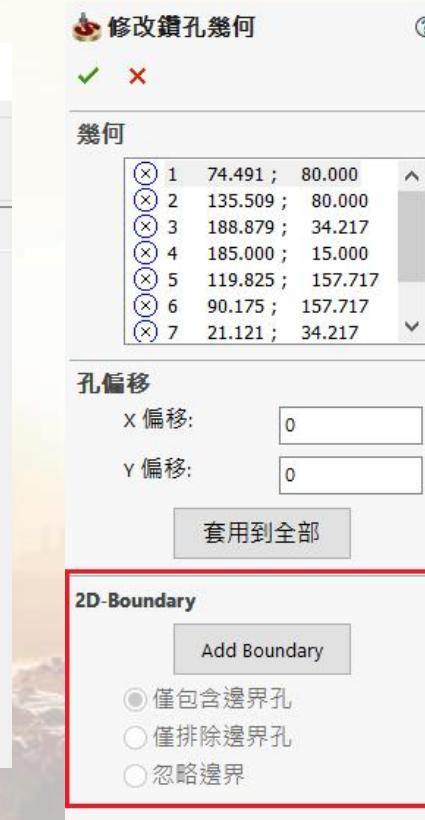
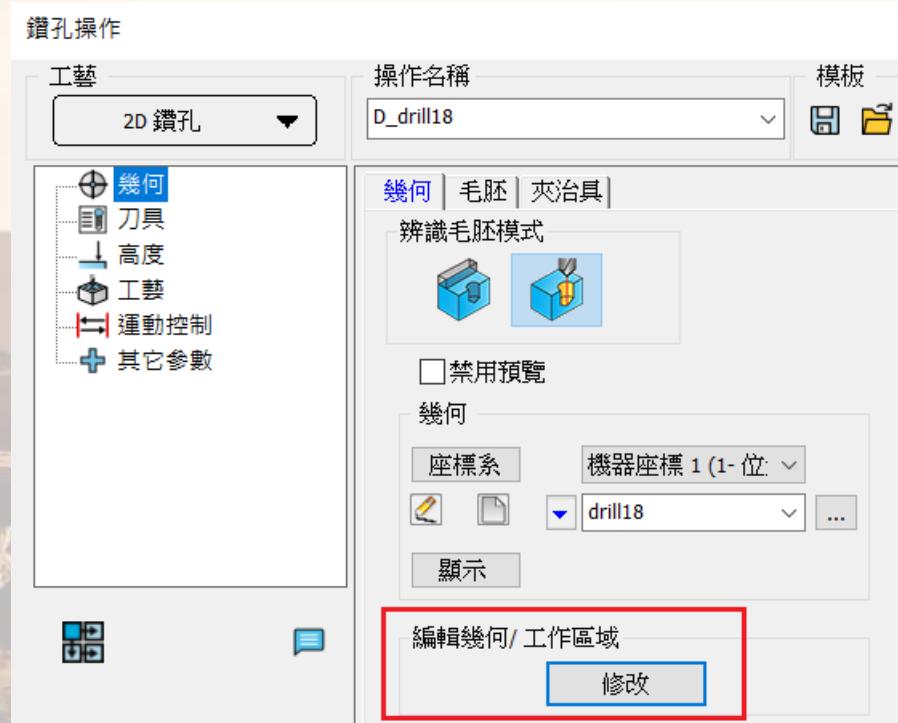
# 2.5D 鑽孔 新增 更新素材 與 夾具碰撞保護

- 改善幾何圖形的選取選項: 辨識毛胚模式 或 標準鑽孔模式.
- 毛胚辨識模式讓你在開始時就了解毛胚的選項.
- 夾具碰撞保護功能已經移動至本頁.

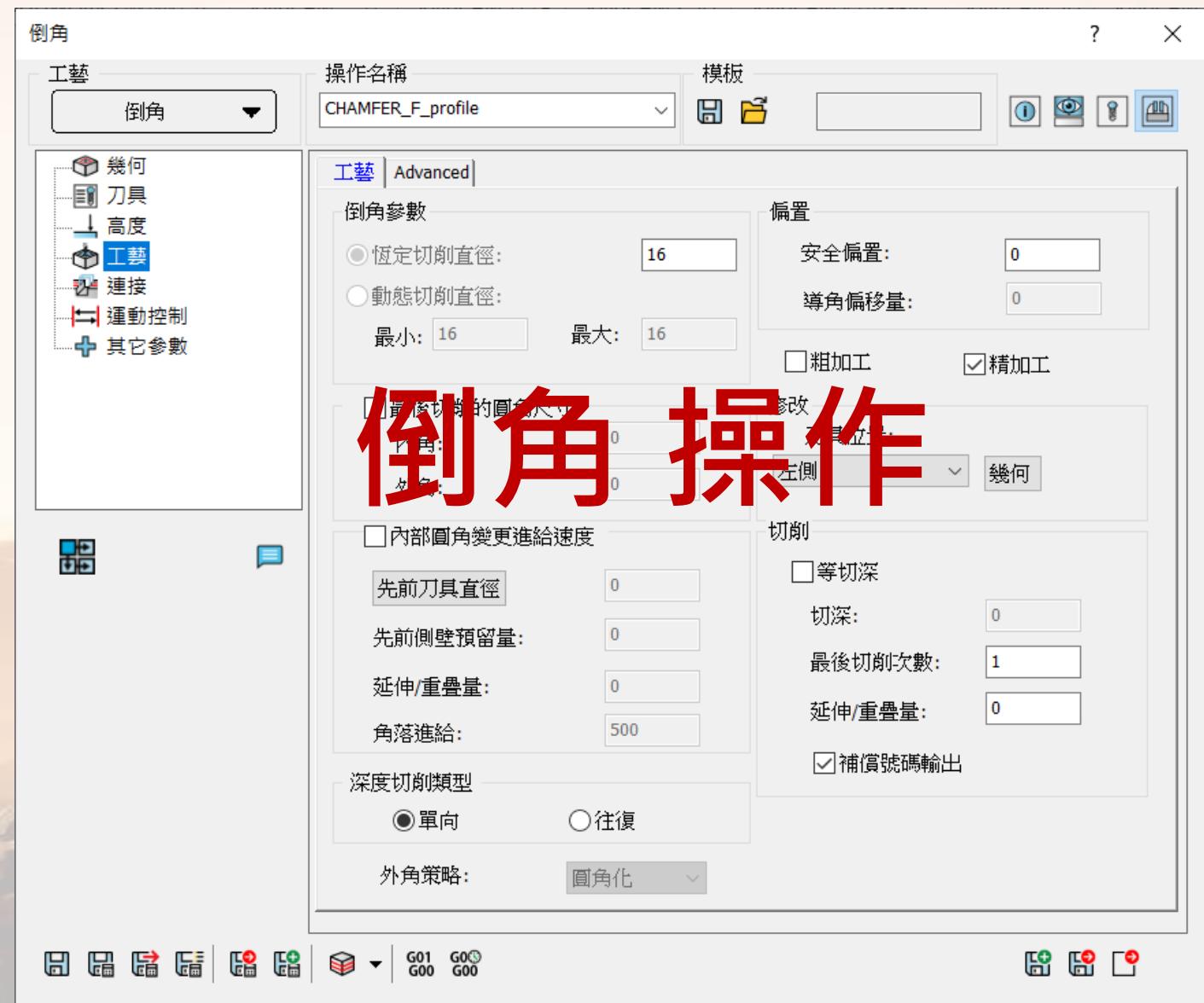


## 2.5D 鑽孔允許使用2D邊界限制加工區域

- 在鑽孔操作中,你現在可以選擇在一組孔周圍設定邊界.
- 你可以決定在邊界內、邊界外,或忽略邊界來鑽孔
- 這對於幾何形狀上有許多孔且需要不同孔徑製程的零件非常有用.

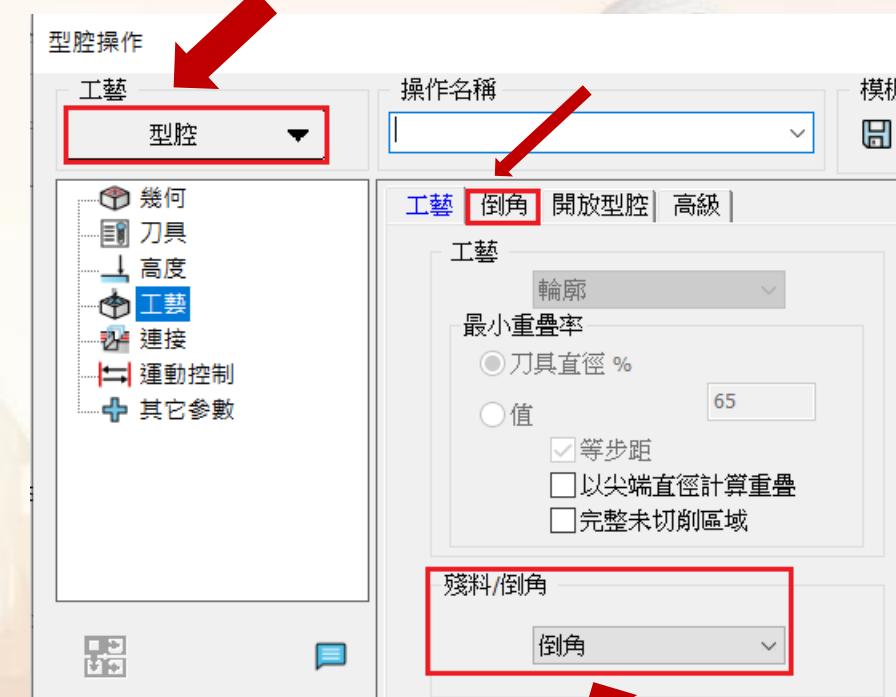
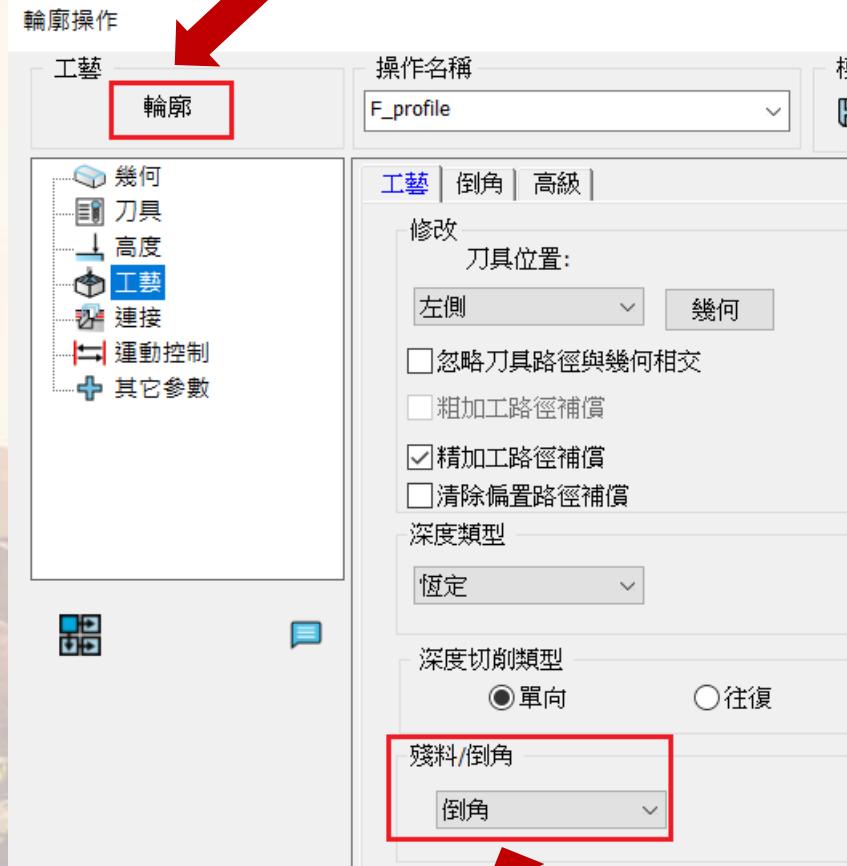


倒角



# 倒角操作 – 先前版本

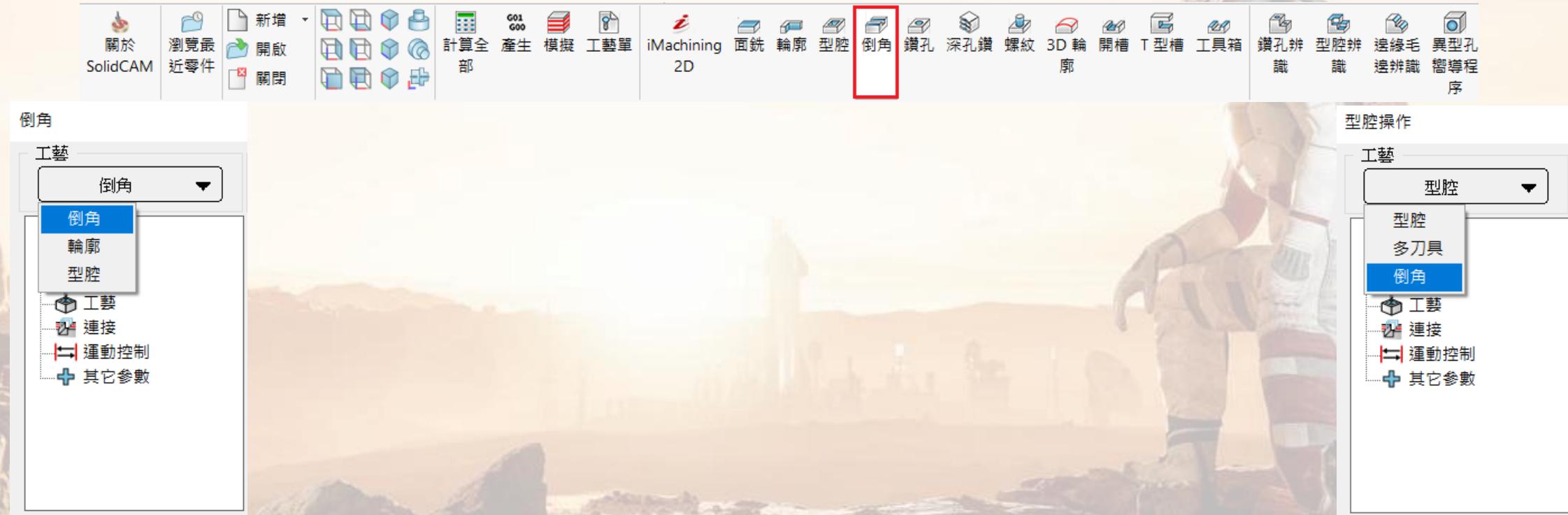
- 在輪廓與型腔操作中，倒角操作是在殘料加工的一部分。



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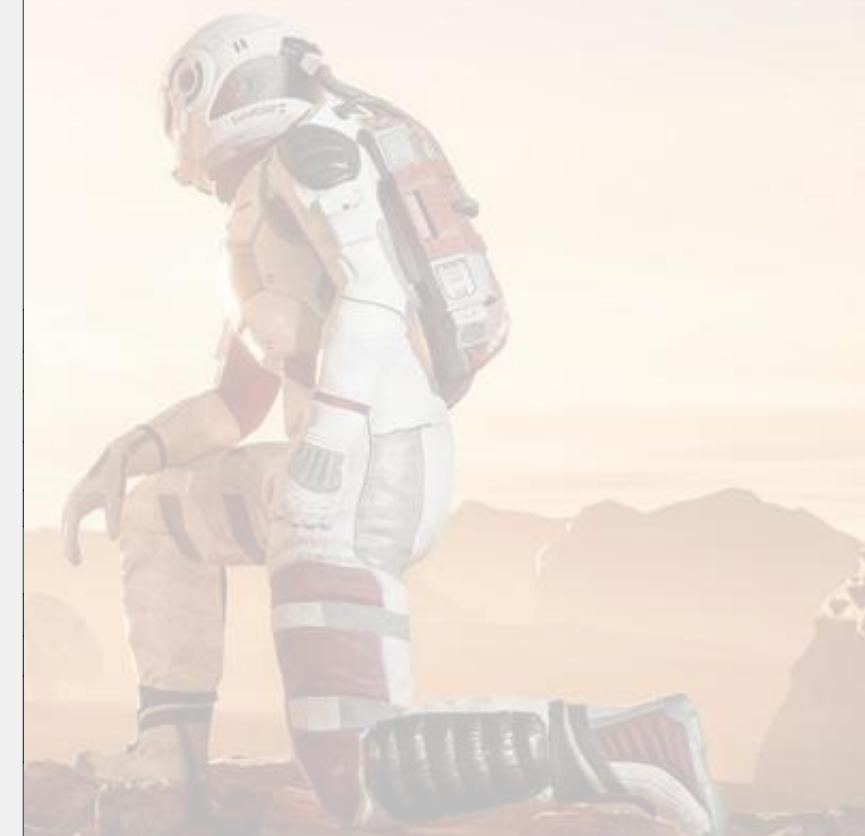
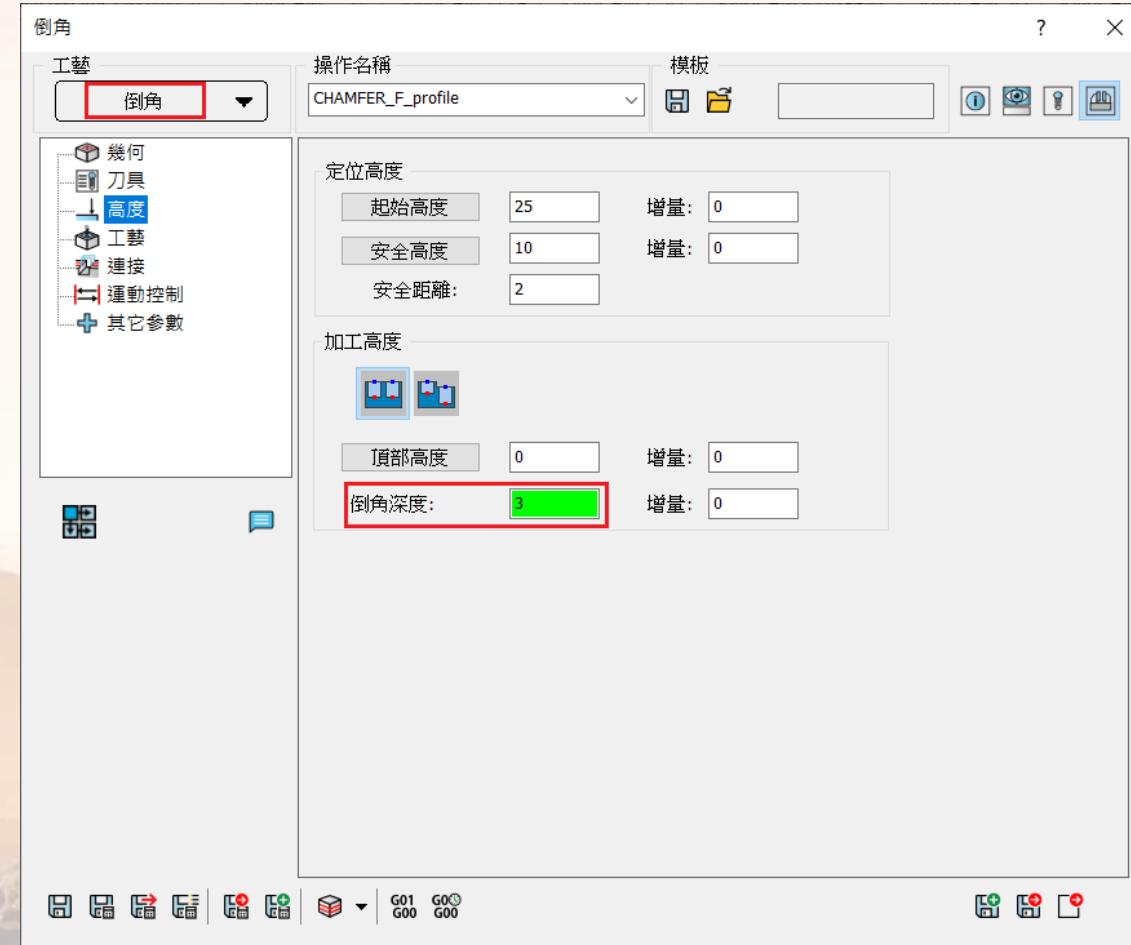
# 倒角 – 新操作

- 目前新增一新操作 ‘倒角’.
- 該選項可以在 輪廓 與 型腔 中, 使用下拉選項執行.



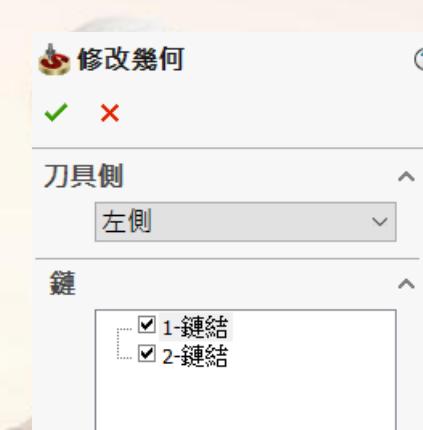
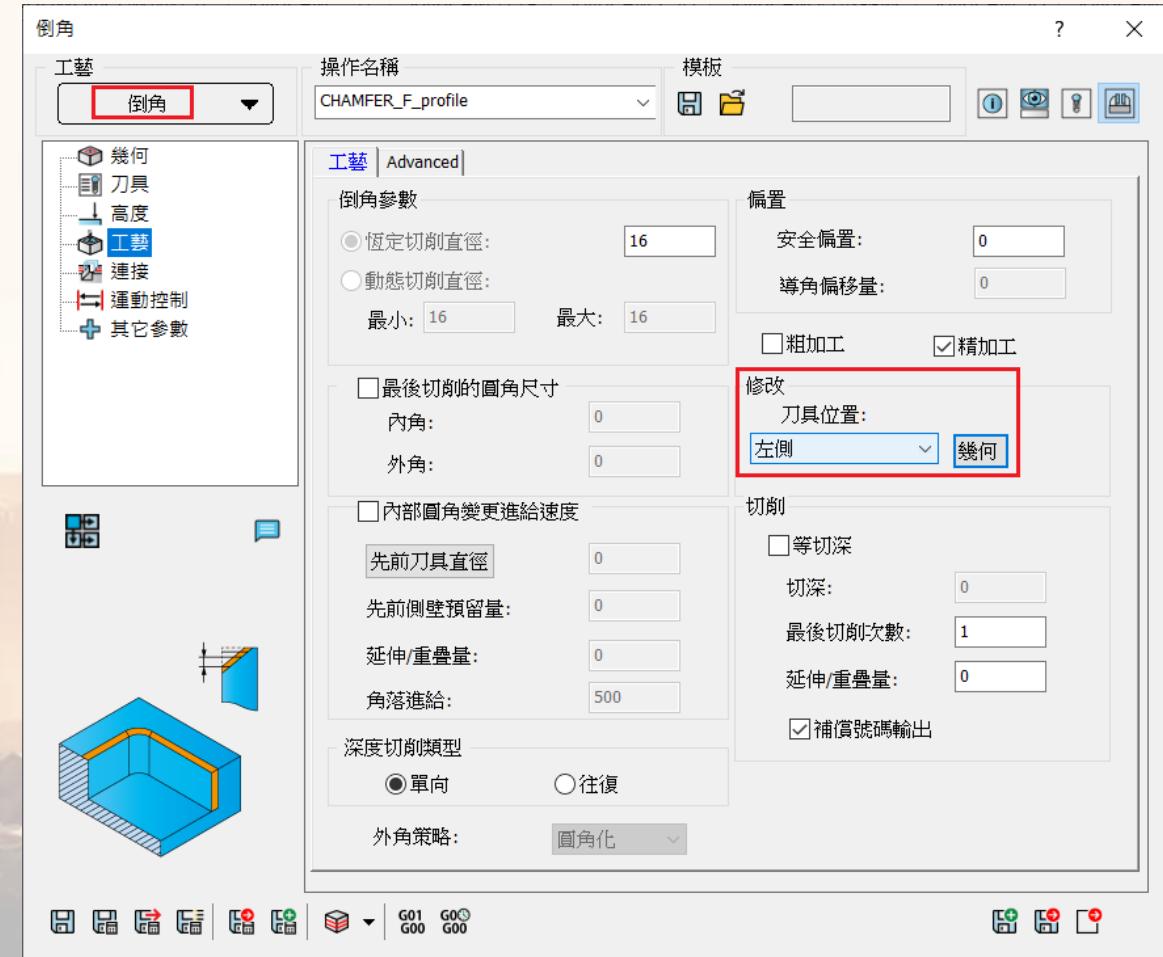
# 倒角 – 高度頁

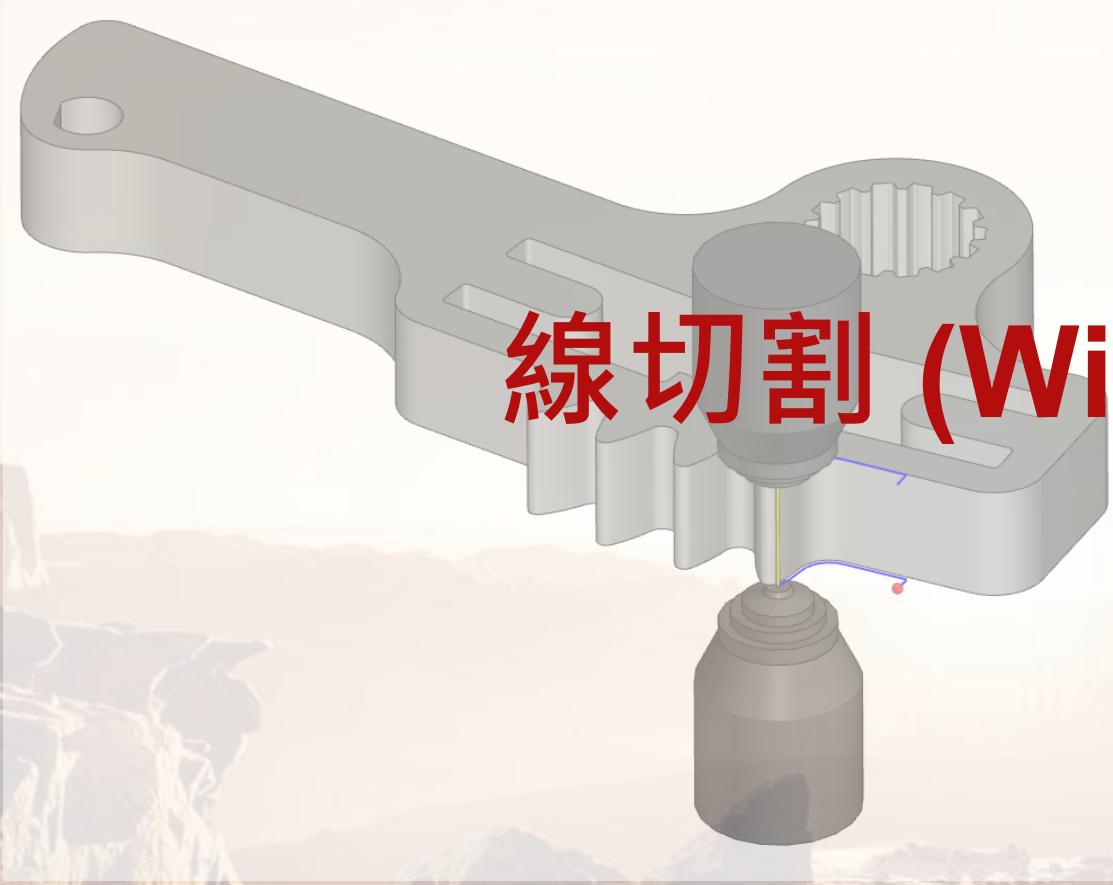
- 高度頁 面將深度更為'倒角深度'而不是'深度',讓使用者更容易理解



# 倒角 – 工藝頁

- 工藝頁面只包含與'倒角'相關的選項.
- 修改也在這個頁面上,你可以決定切削方向並修改要切削的鏈結.

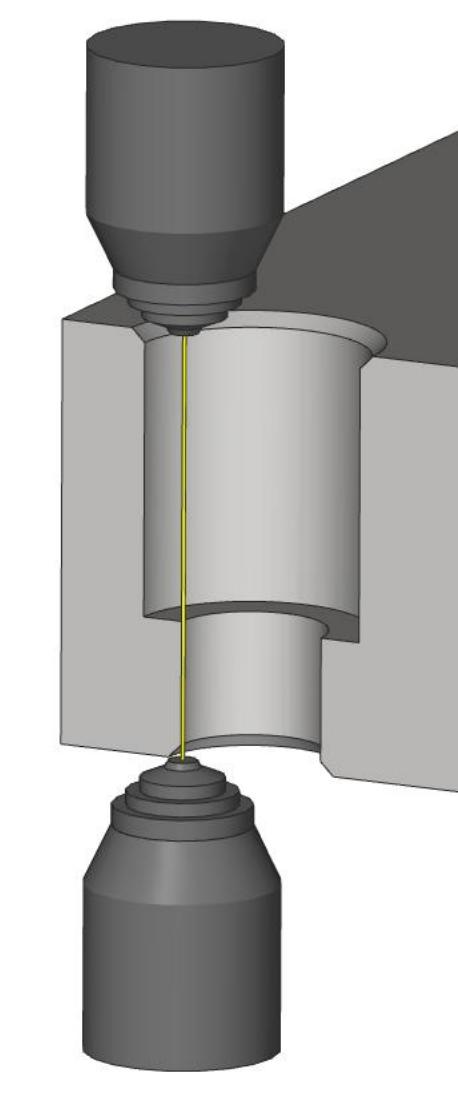




# 線切割 – 放電加工

- **SolidCAM**的線切割模組提供了一系列用於線切割操作的功能.它支援適用於不同材料和線材的各種切割策略,可針對不同工件厚度優化製程.

- 內建巨集
- 子操作(Sub-Operations)包含延遲切割(Postponed Cutting)
- 先進的橋樑(Bridge)控制可避免材料掉落



# 線切割模組

2 - 軸

輪廓

角度

固定角度

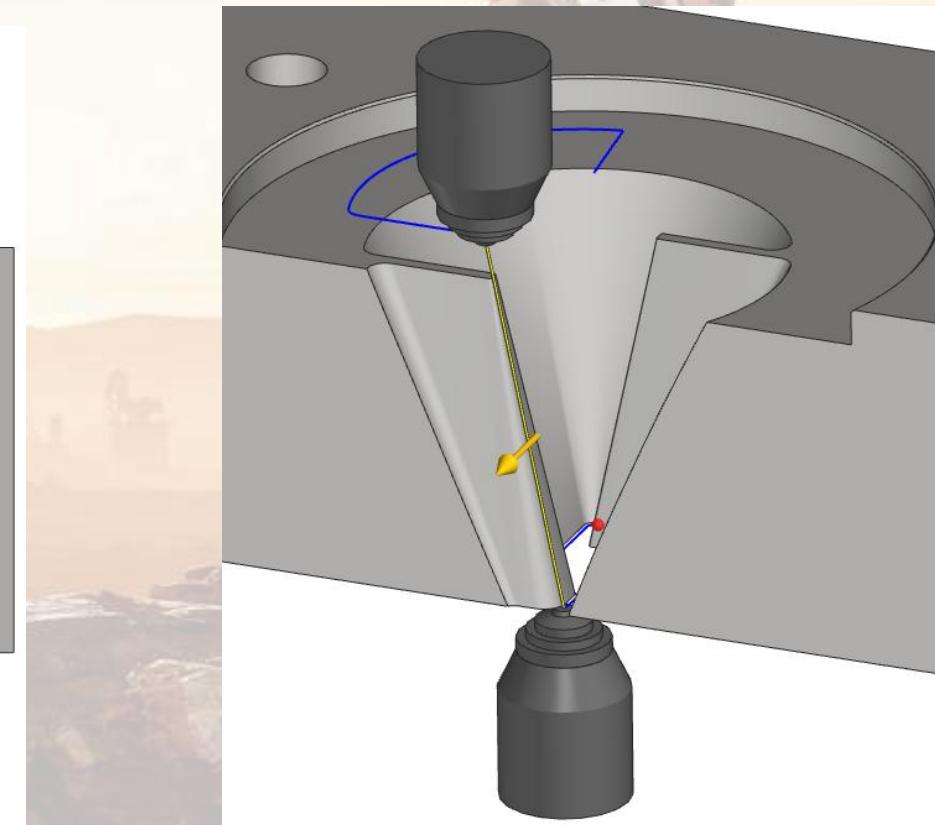
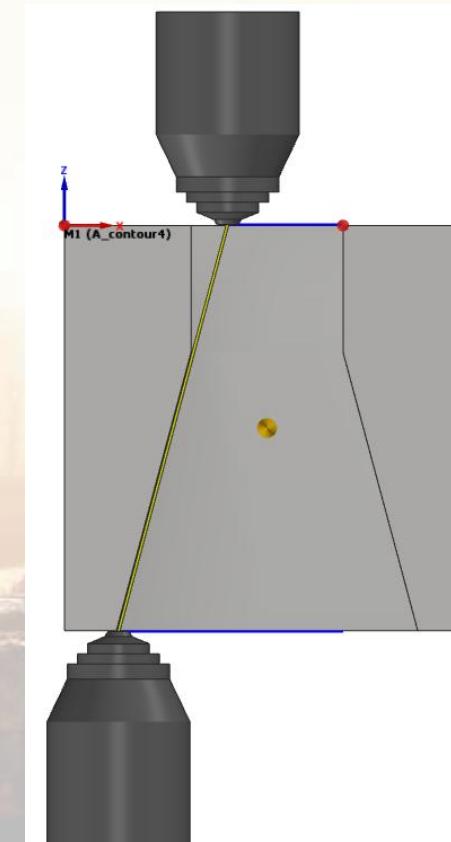
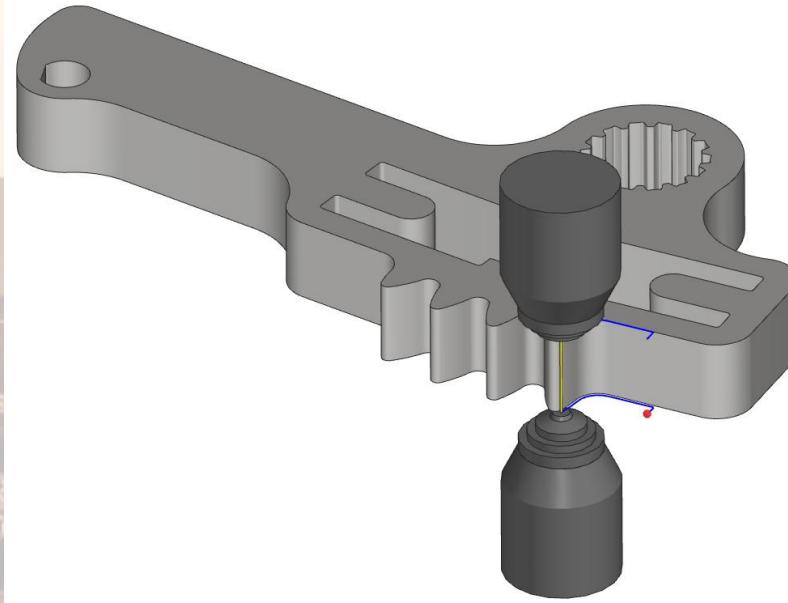
變化角度

4 - 軸

線架構

巨集

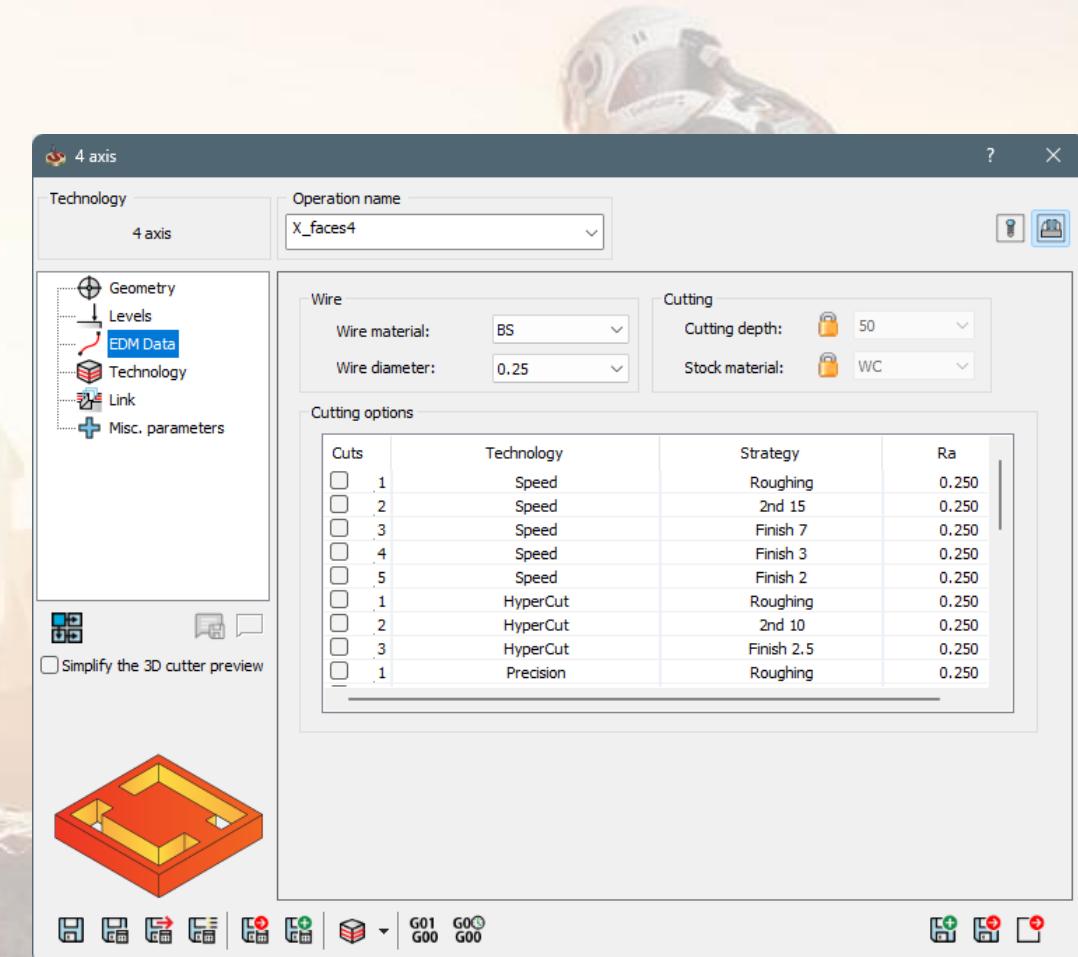
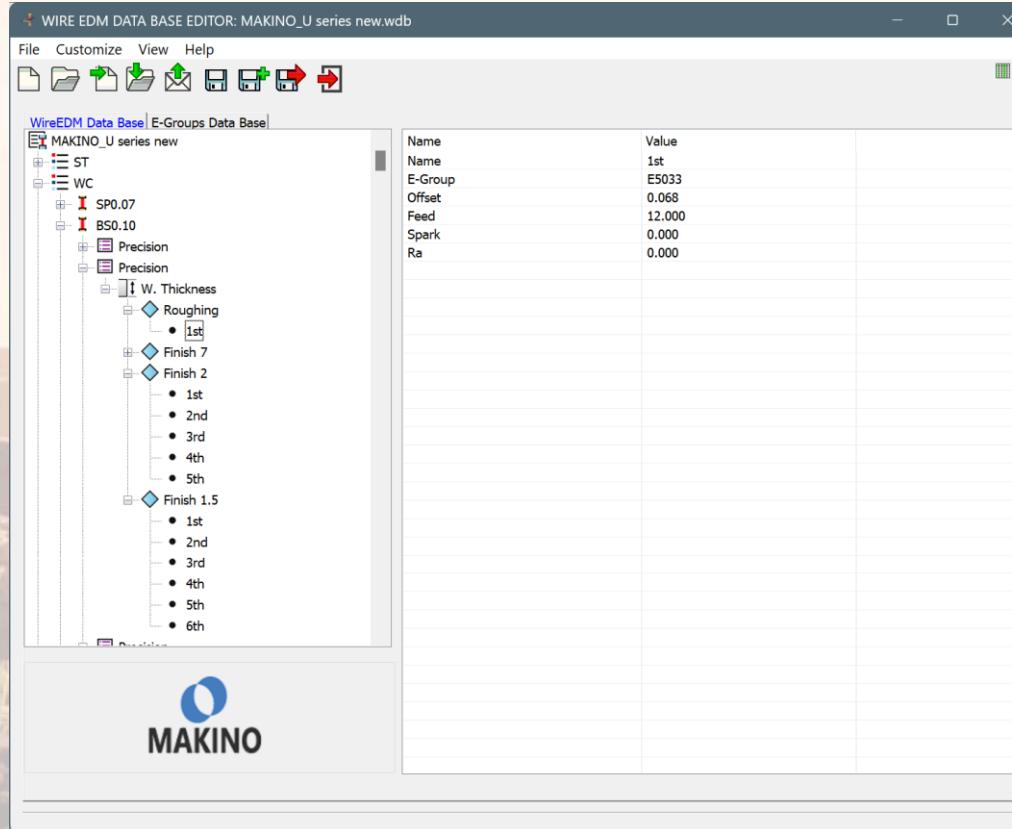
實體



**SolidCAM**  
Wire EDM

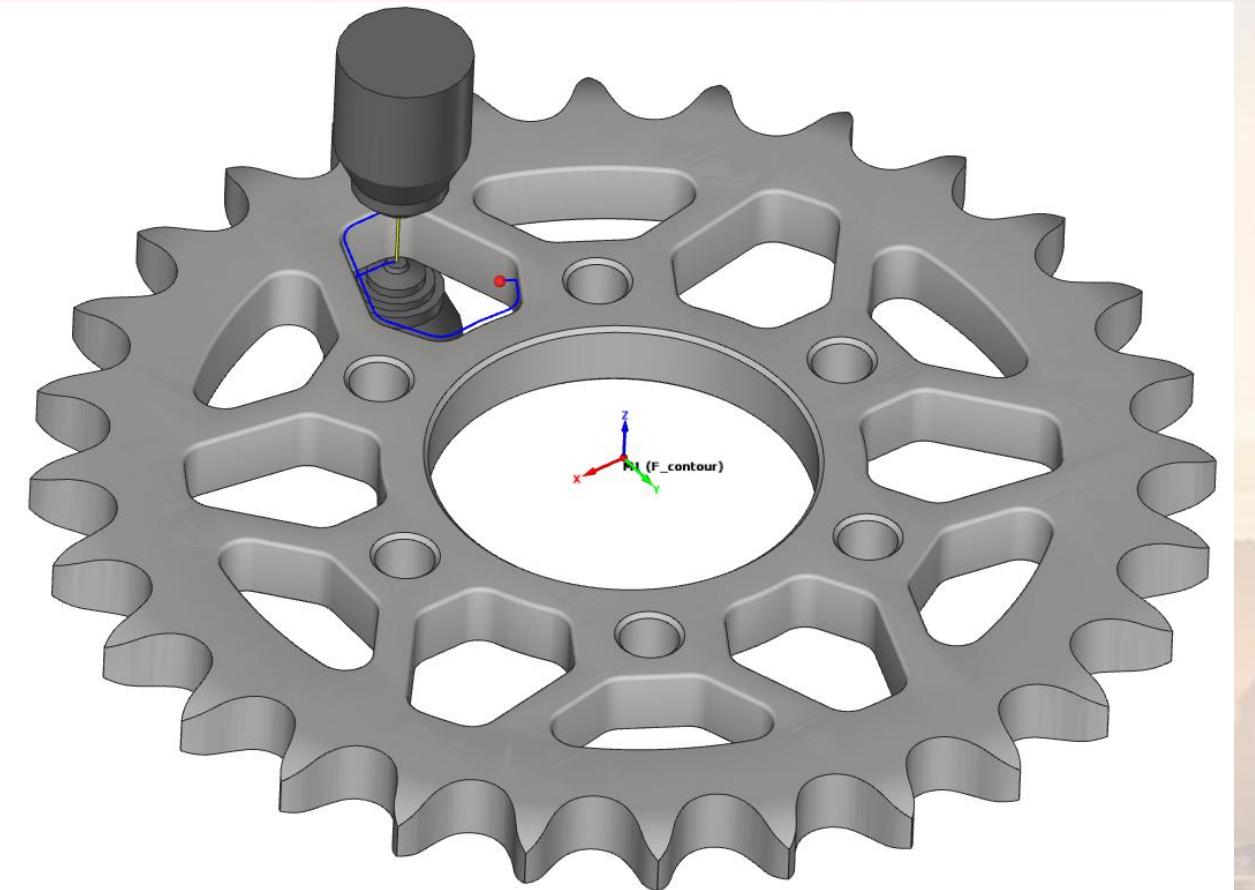
## 線切割 EDM- 資 料 頁 (Data)

- **Wire EDM** 數據擁有涵蓋各種線材類型和材料的綜合材料資料庫,可優化加工參數,實現精準切割.可根據切割深度、金屬線材和線材直徑篩選可用技術.



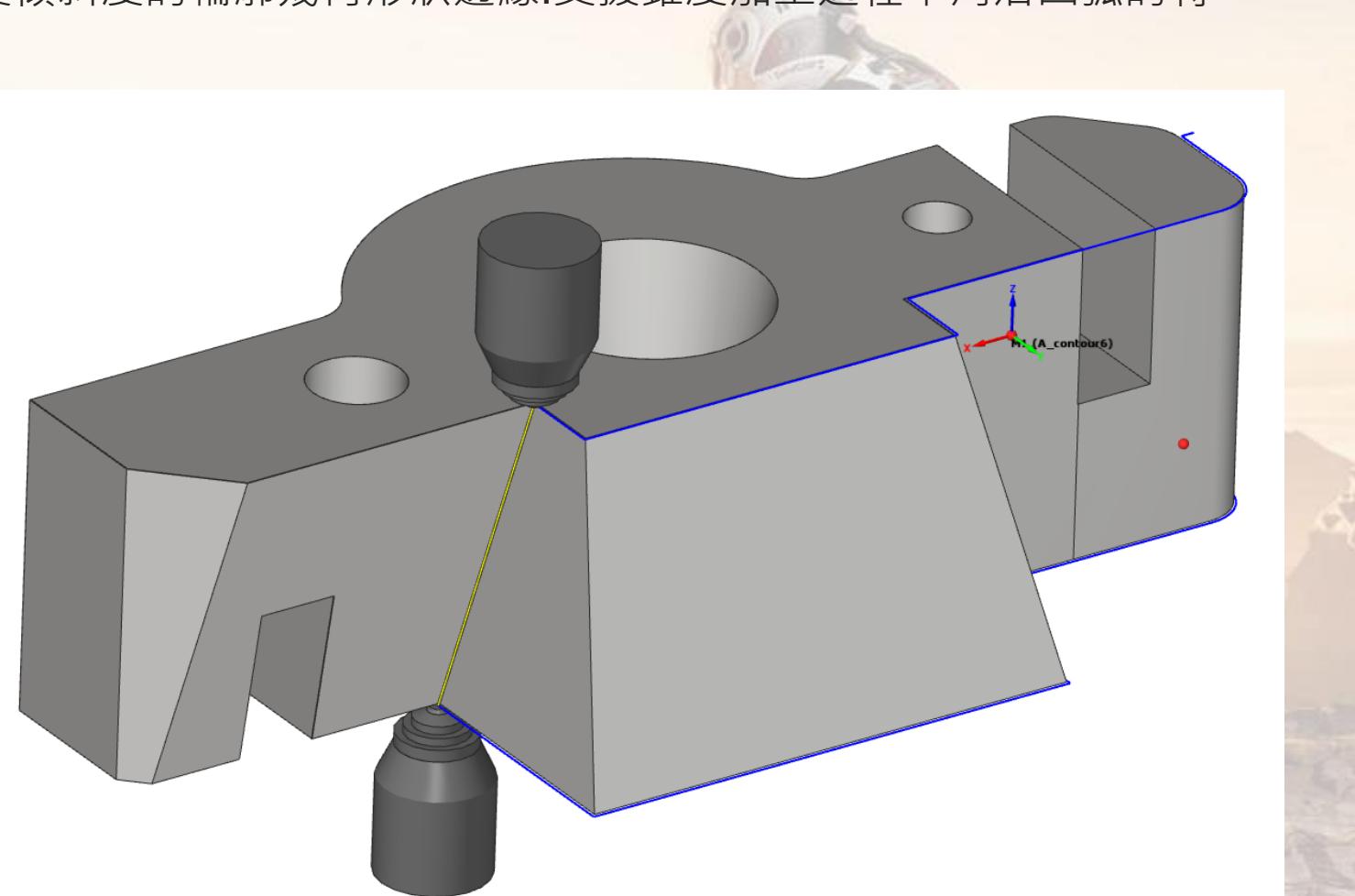
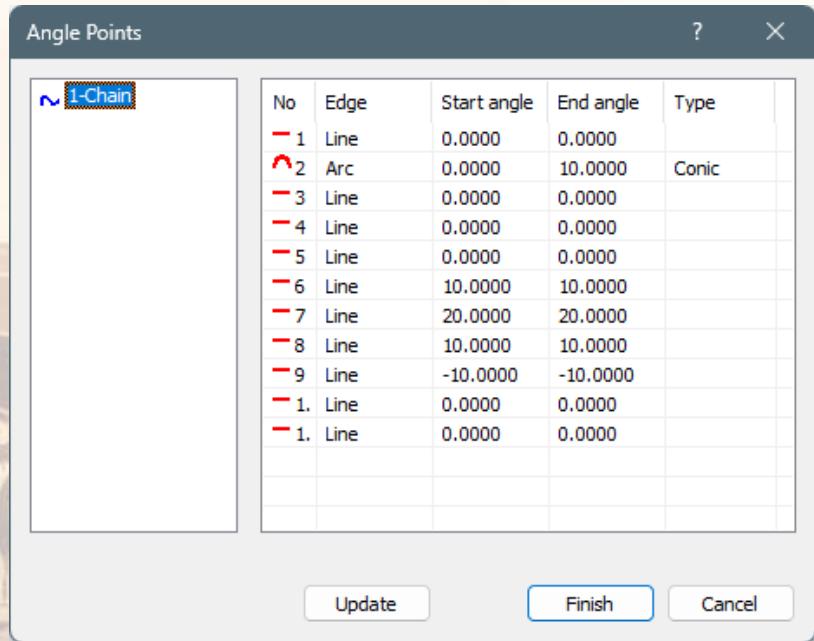
# 輪 廓

- 輪廓操作可讓您沿著輪廓幾何外形進行切割
- 允許使用智能面選取輪廓
- 可在切割路徑上產生自動停止點,以防止大塊切割材料掉落.
- 使用者可自定停止點,並沿路徑改變切割條件.

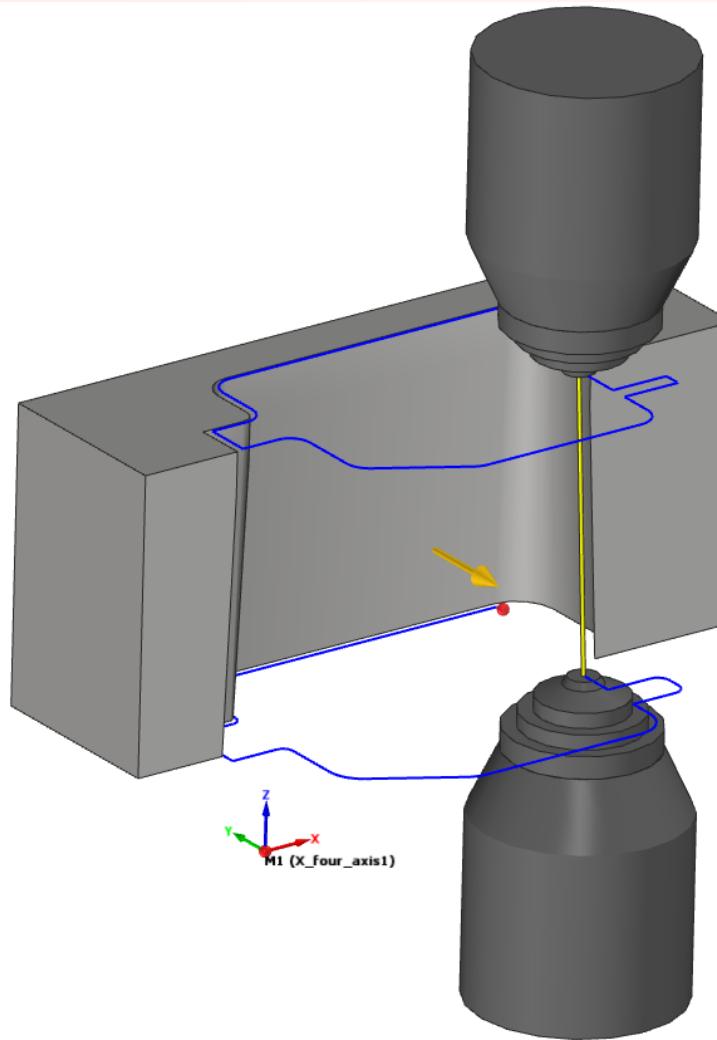


# 角度切割

- **固定角度** - 具有固定傾斜角度的輪廓幾何形狀
- **變化角度** - 角度操作可用於修剪具有錐度傾斜度的輪廓幾何形狀邊緣.支援錐度加工過程中角落圓弧的特殊控制方法..



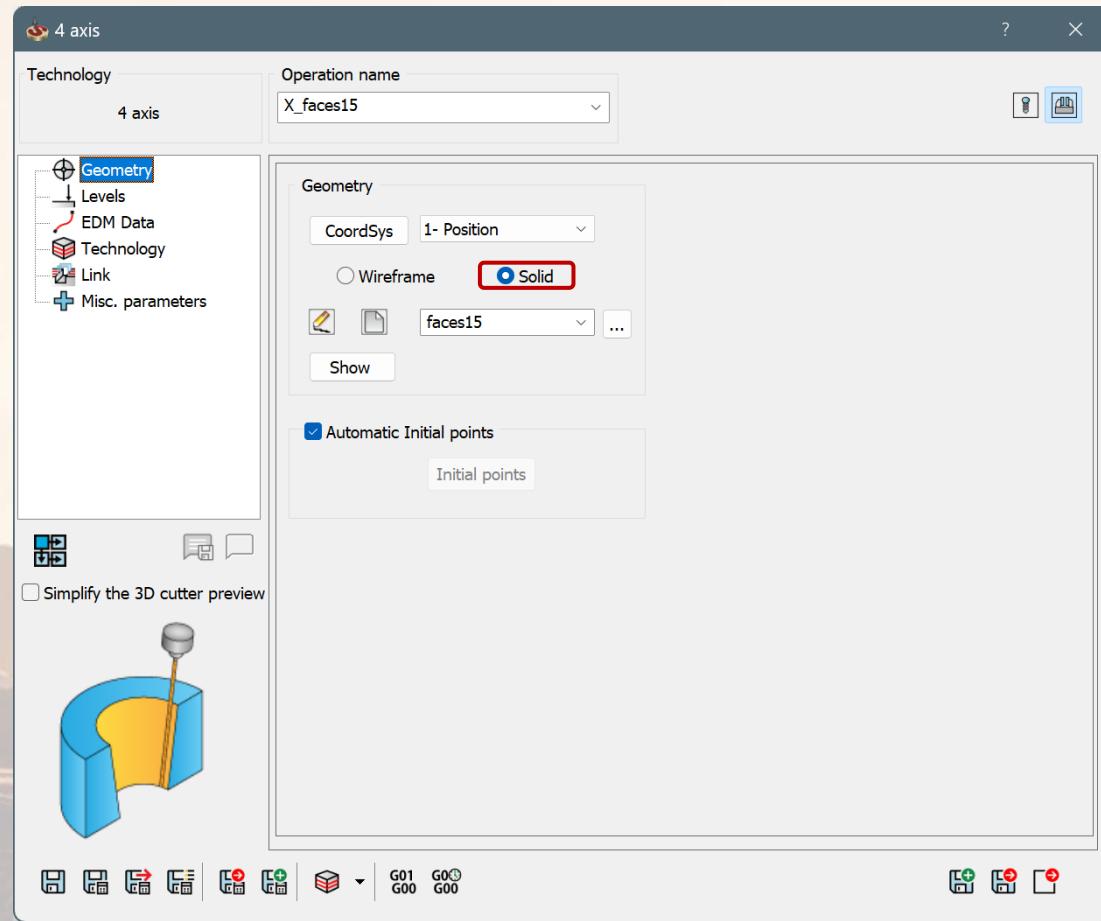
## 4-軸線架構



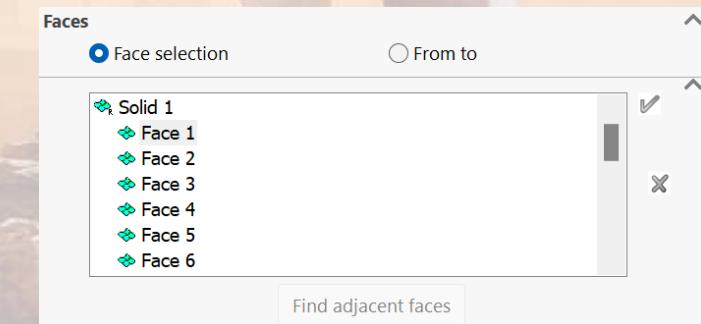
- **4-軸線架構**-在不同高度 Z層 的兩個輪廓之間產生切割路徑.
- 軟體會自動尋找這些輪廓之間的連接線,以管理導線的軌跡.使用者可以新增、編輯或刪除連接線..



# 4-軸 實體



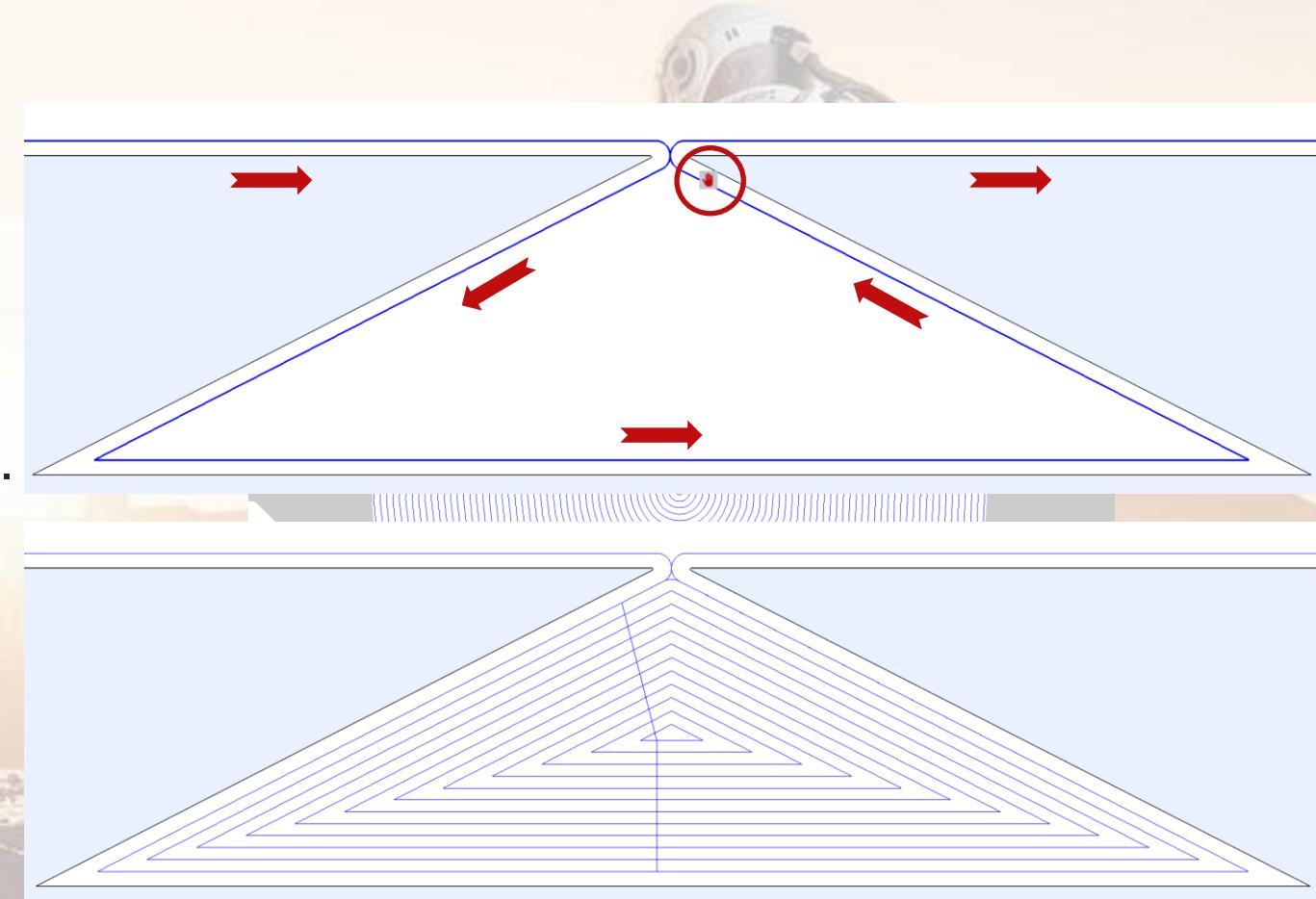
- **4軸 實體模組** - 可對關聯曲面進行同步加工.
- 線切割自動檢測並分組附近的平面,以提高加工效率.
- 兩種選項,方便曲面選取

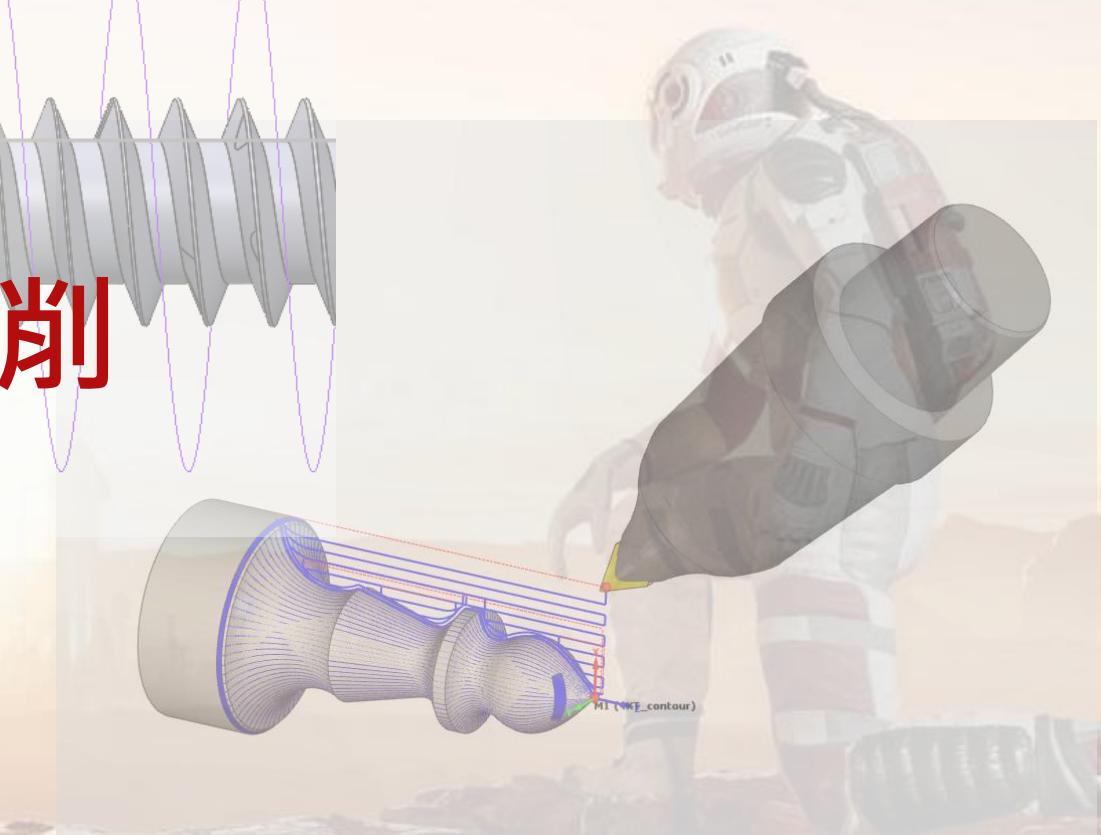
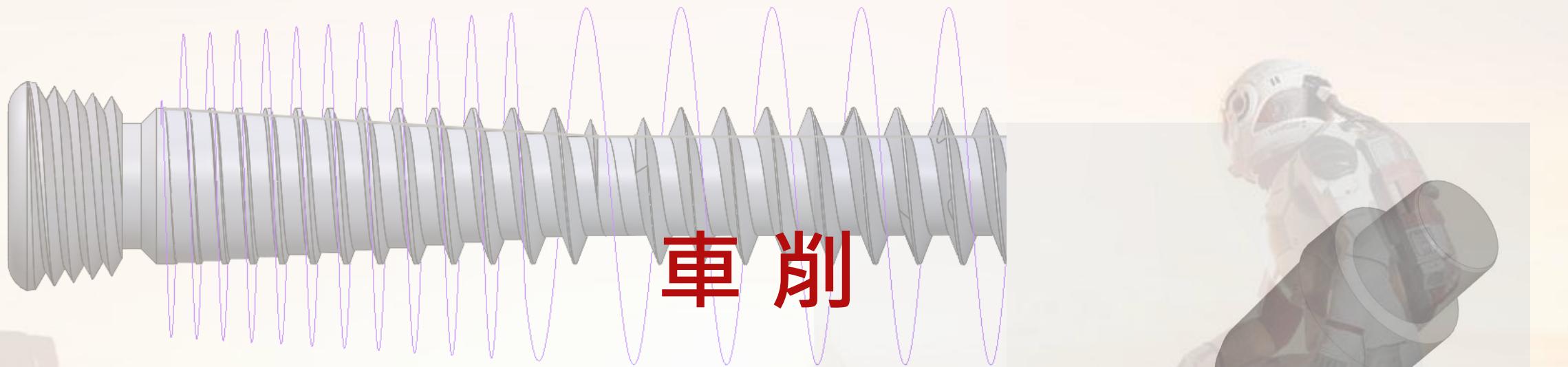


# 無 削 切 割(Destruction)

- 這種方法可以沿著切割路徑完全移除材料,不留下任何未剝落的材料.該技術尤其適用於在硬質材料上製作複雜且精確的形狀.

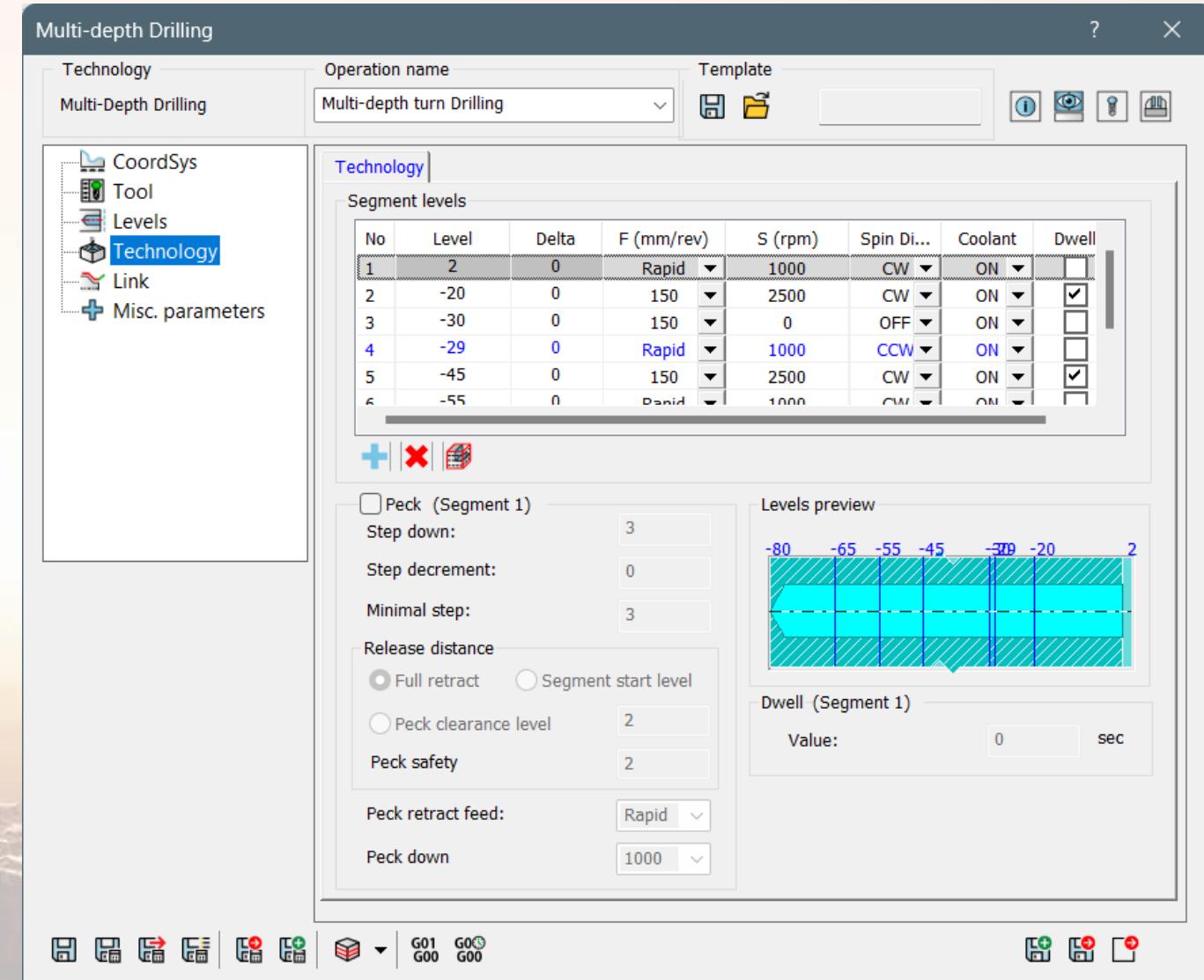
- **燒割(Burn)** - 透過側邊偏移清除所有材料
- **一片式(One piece)** - 自動偵測芯子有掉落風險的狹窄位置,並插入停止動作.
- **燒芯(Burn core)** - 自動偵測芯子有掉落風險的狹窄位置並清除整個材料.





# 深孔鑽 用於 車削

- 車削模式允許支援深孔鑽
- 對於深孔和橫向貫穿孔以及退刀非常有用。
- 完全精確地控制每個深度的轉速、進給率、主軸方向、冷卻液和延遲時間。
- 全部啄式控制鑽孔，包括逐步遞減與退出距離。

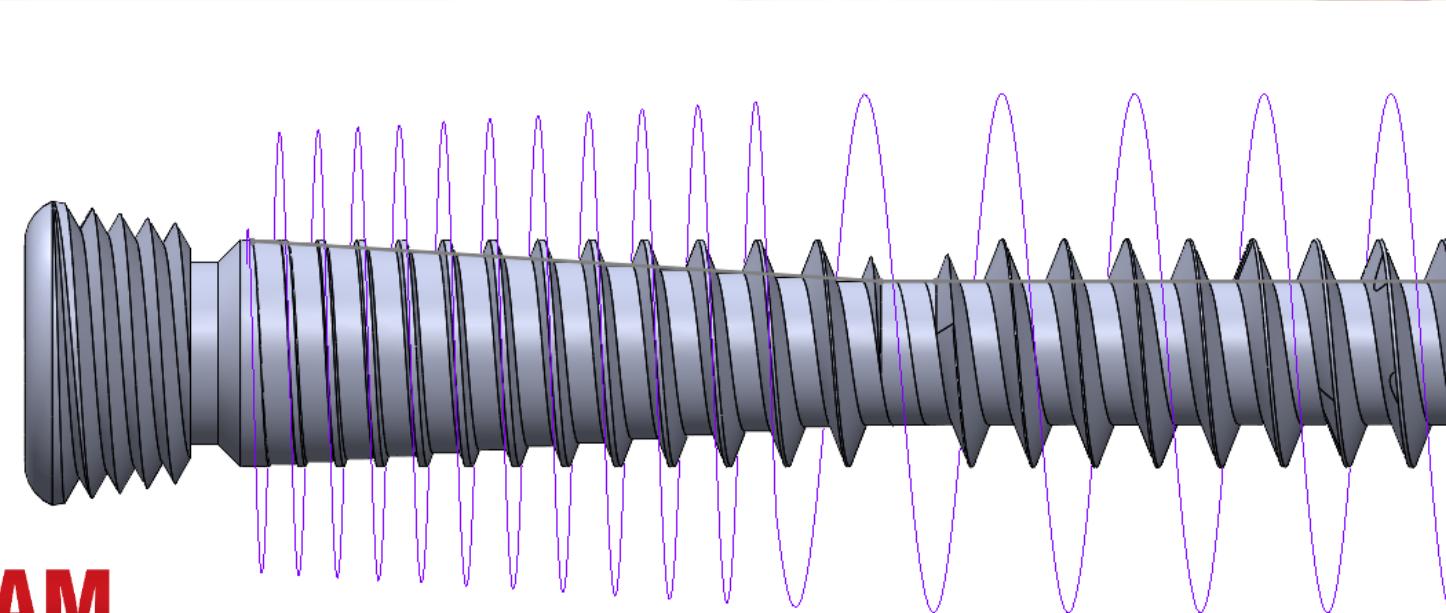


# 旋風銑螺紋(Whirling) – 可變螺距

可變螺距是指螺紋沿其長度方向改變螺距.此技術適用於需要在同一件產品中使用不同螺紋密度的應用,例如專用緊固件或機械部件.

## 關鍵方面:

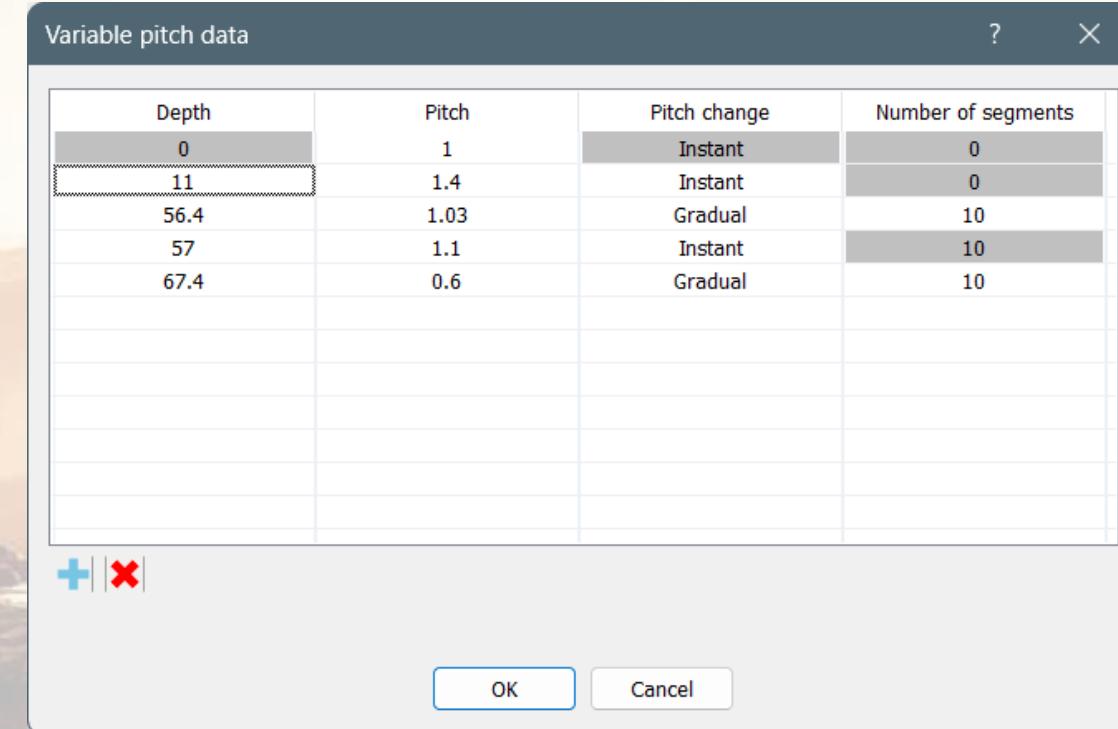
- **客製化** : 支援不同螺距的螺紋,可依據特定要求進行製作.
- **性能** : 變螺距螺紋可以減少振動並提高螺紋部件的性能.
- **控制** : 更好地控制螺紋輪廓,這對於高精度應用至關重要.



# 旋風銑螺紋(Whirling) – 可變螺距

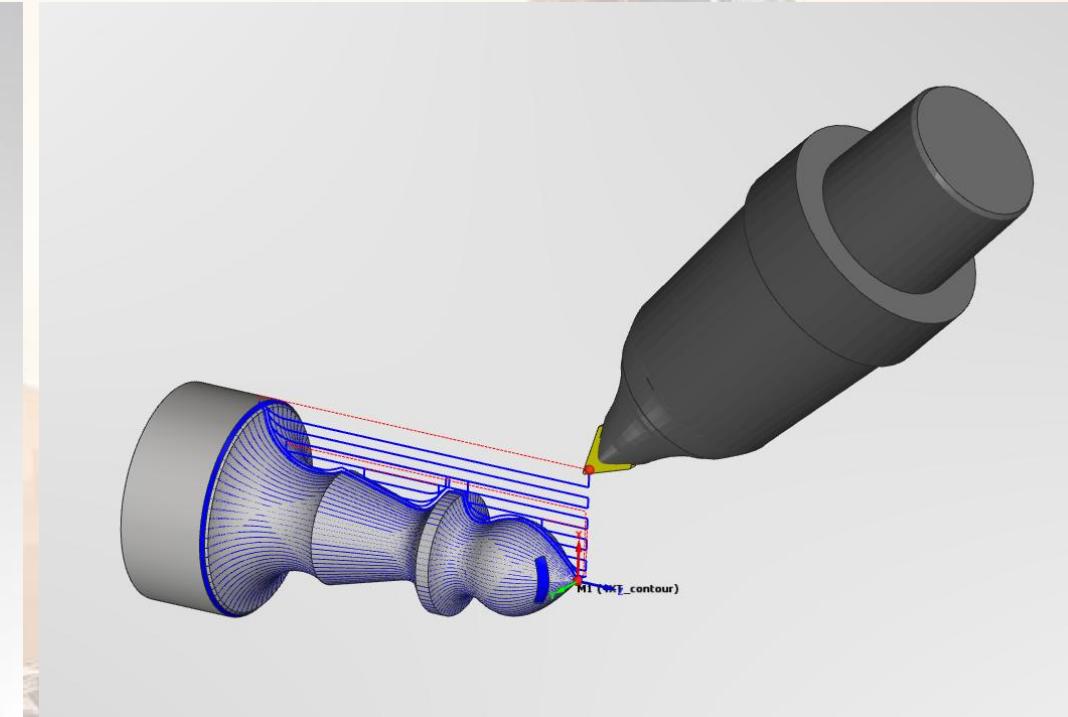
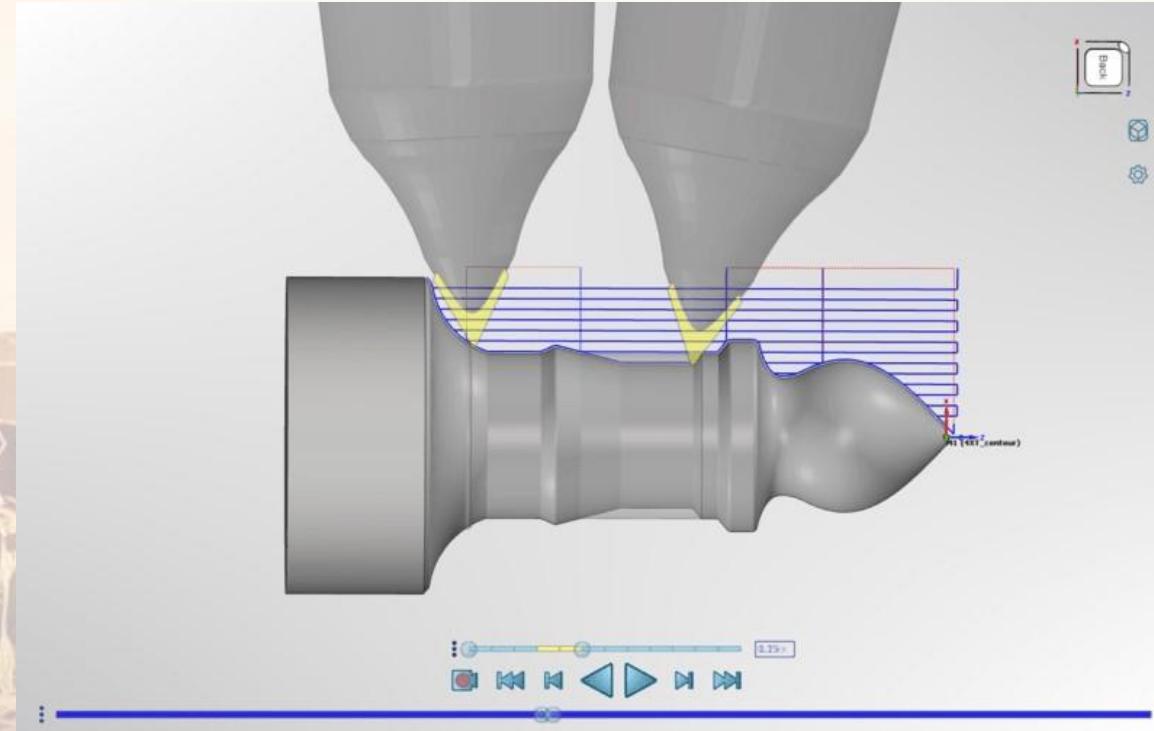
加工控制提供兩種策略

- 即時變化(Instant Change): 當達到設定的Z高度時, 螺距會立即改變
- 漸變(Gradual Change): 螺距在兩個Z軸深度之間逐漸變化, 過渡更平滑的與螺紋輪廓控制更好.



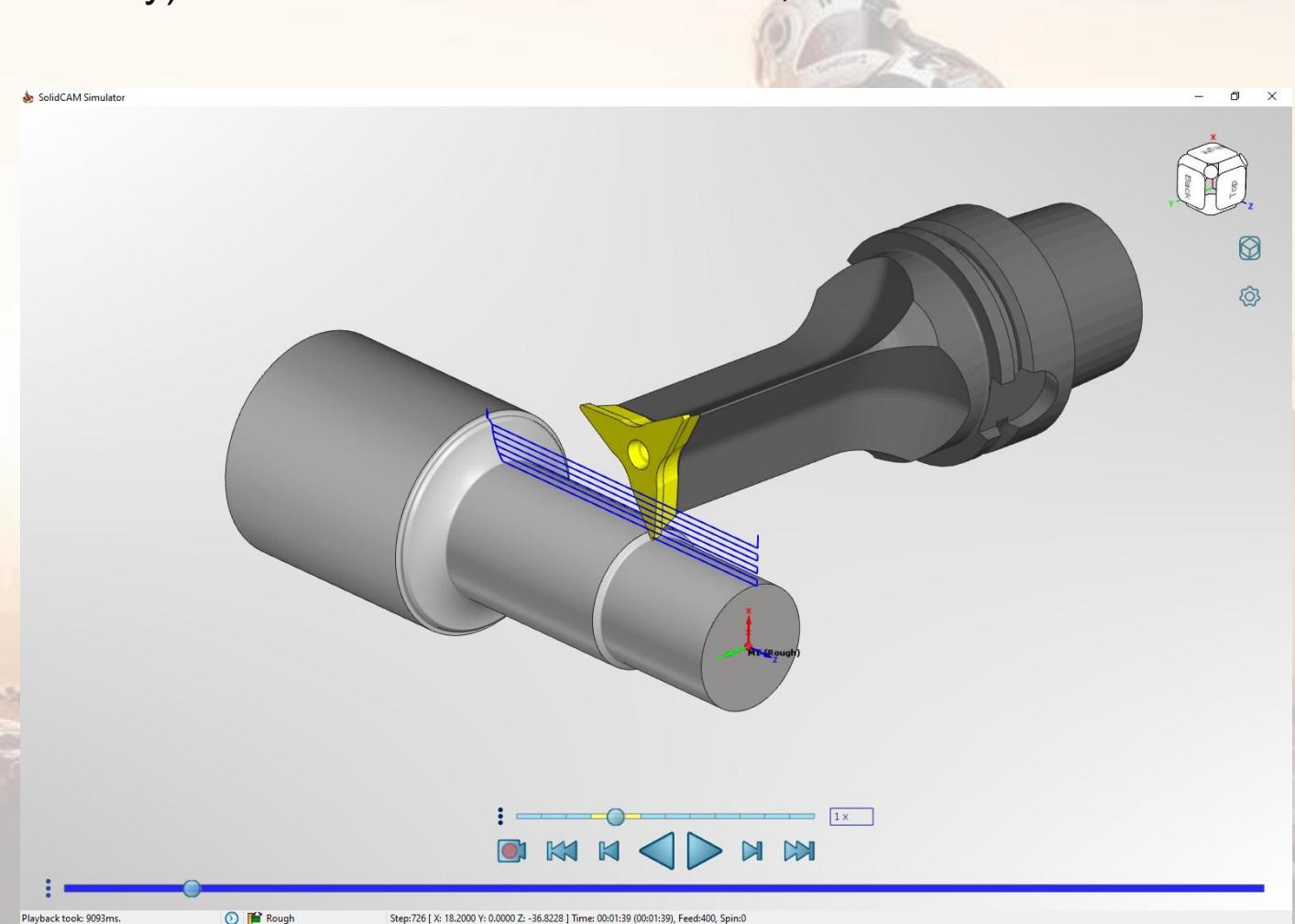
# 動態車削

- 是一種進階的加工技術,可提高車削操作的效率和靈活性,在車削過程中使用**旋轉軸**使我們能夠使用單把刀具切削更多的材料並保持最佳切削條件.



# 動態車削

- 自動避免刀具、零件和夾具之間的碰撞.
- 自適應進給功能(Adaptive feed functionality) - 在粗加工過程中動態更改進給, 讓刀具在切削過程中保持負載恆定.
- 提供粗加工和精加工車削製程的模組功能.
- 為Y軸車削提供了絕佳的解決方案.



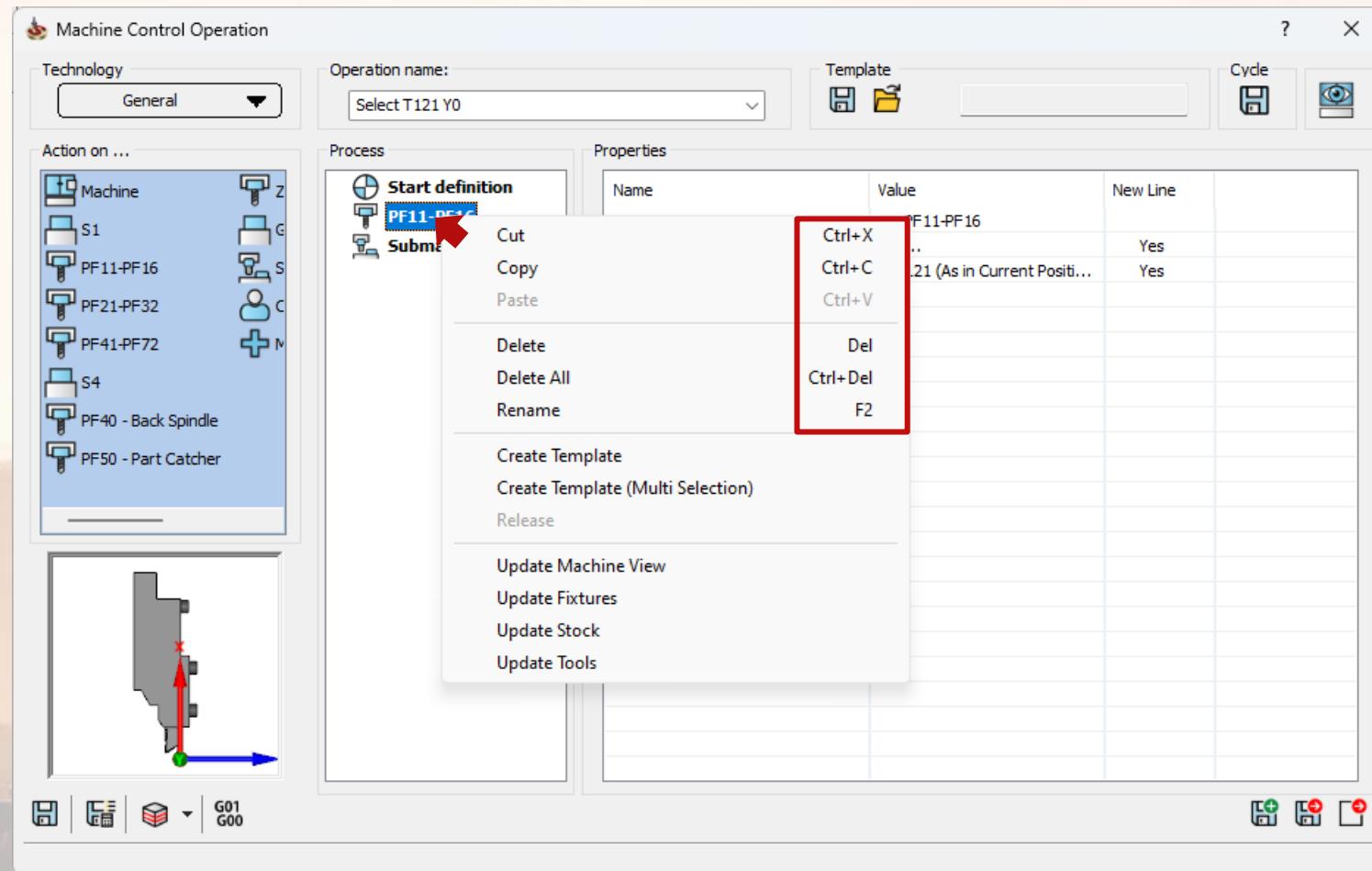
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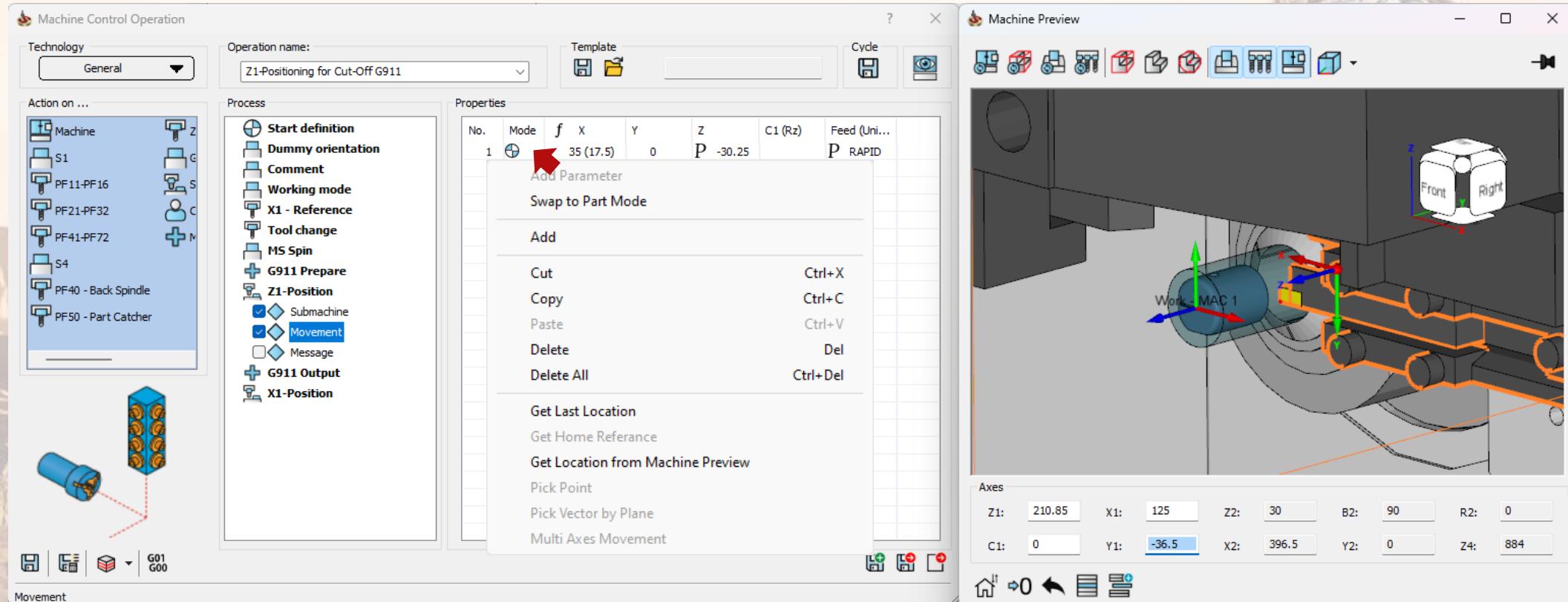
# MCO – 鍵盤快 捷 鍵

## □ 為項目的主要命令新增鍵盤快捷鍵



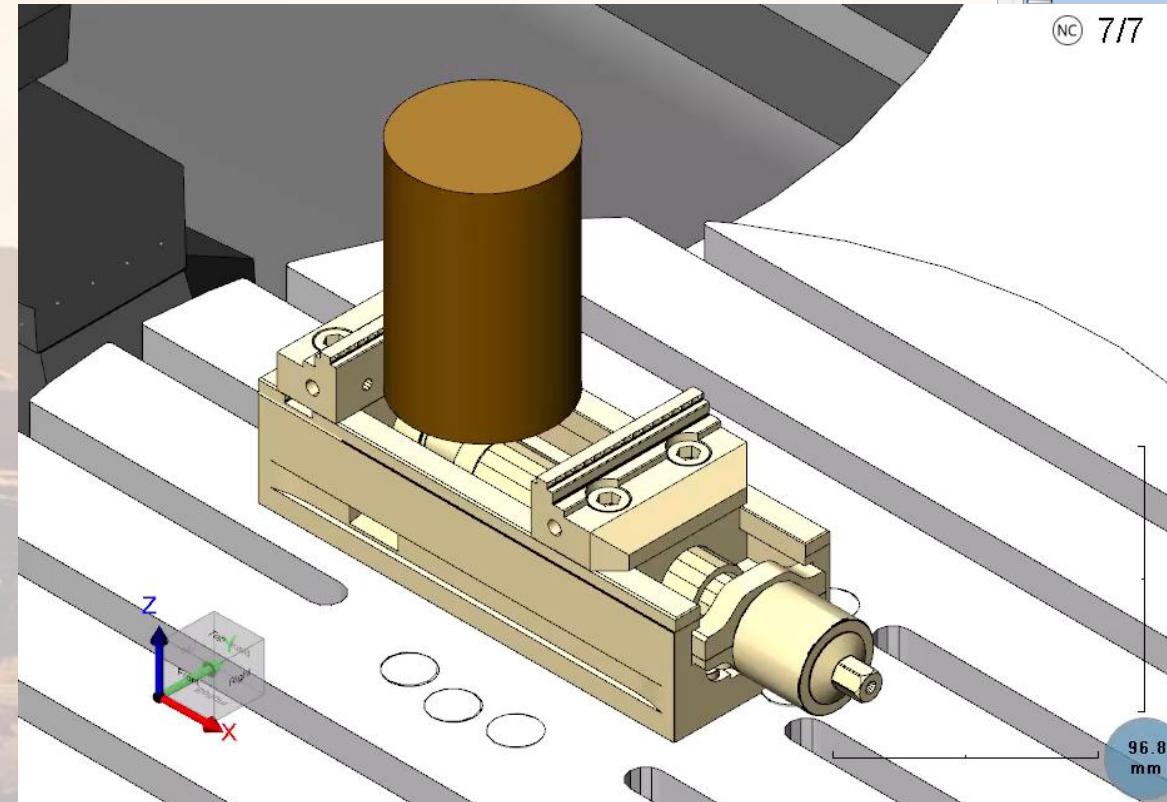
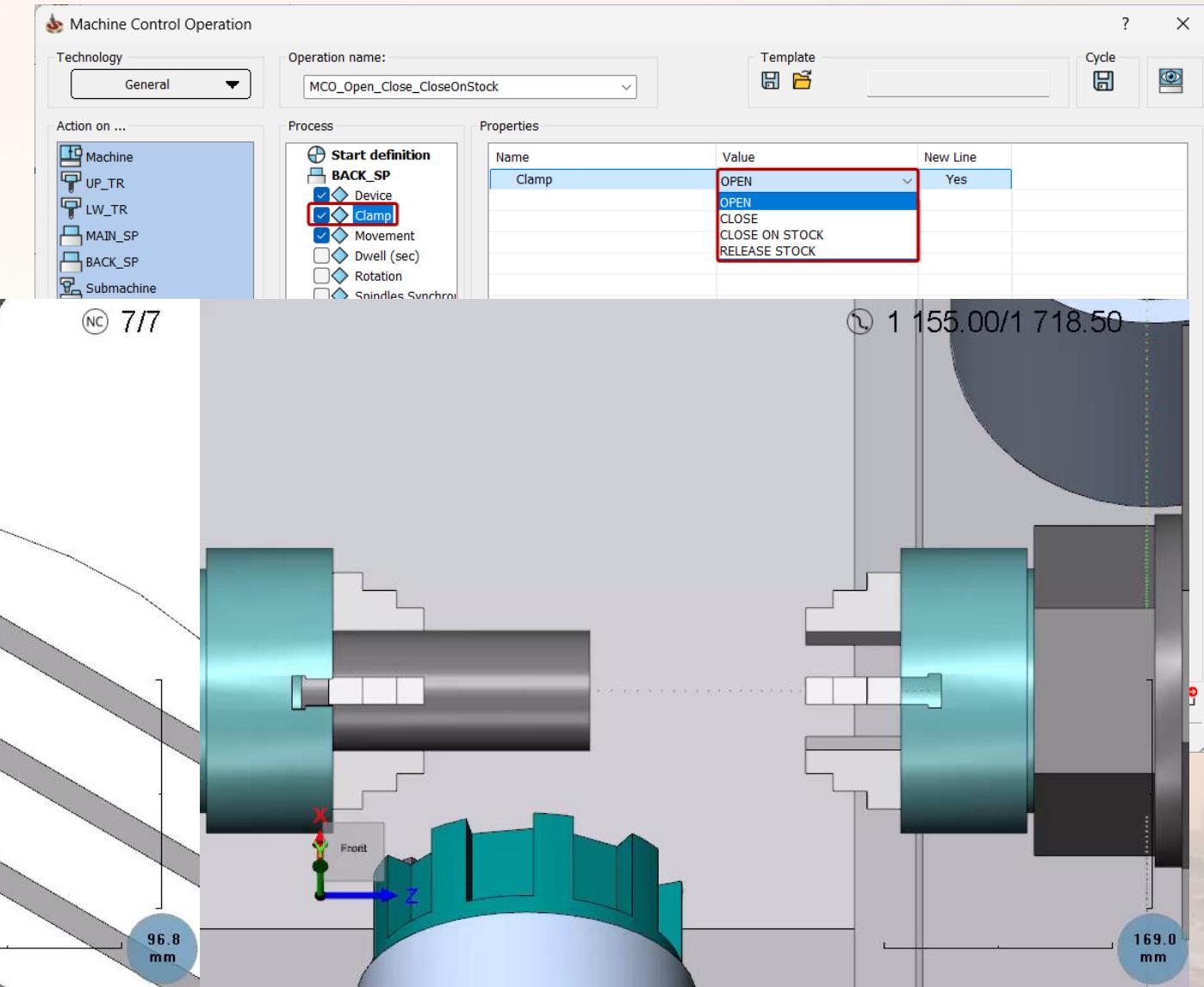
# MCO – 移動依據 工作座標-偏移

- 子機(Submachine)新增依據 WCS ( 工作座標 ) 移動的功能
  - 主軸不再需要預先定位



# 機器模擬 – MCO 夾頭開啟, 關閉, 與 夾緊毛胚

- 允許使用機器模擬MCO夾頭開啟, 關閉, 與夾緊毛胚, 釋放毛胚操作



TOOLKIT: M32 INITIAL TEST - 2 Day

File Edit View Help

**Tool Catalog**

- END MILL**
- BULL NOSE MILL**
- BALL NOSE**
- FACE MILL**
- DOVE TAIL MILL**
- TAPER MILL**

**Tool Details**

Catalog number: SC0048  
Shape type: Parameter Data  
Swap Units Data: mm <-> inch ...  
Tool parameters:  
Diameter (D): 3.3 mm  
Angle (A): 118°  
Shoulder diameter (SD): 3.3 mm  
Arbor diameter (AD): 3.3 mm  
Shoulder length (SL): 1 mm  
Total length (L): 80 mm  
Outside holder (OHL): 20 mm  
Helical angle: 45 (Medium)  
Number of flutes: 1

**Tool List**

Tool Number...	T...	Description	Diameter	Tool Type
Gang...	1	Descri...		Groove
	2 (2-A)	Descri...		Profile
	2 (3-A)	Descri...	6.00	Profile
	3	Descri...	6.00	BALL NOSE
	6	Descri...	6.00	END MILL
	7	Descri...	3.300	DRILL
	8	Descri...	4.000	TAP
	9	Descri...	24.000	SLOT MILL
B-axis...	12	Descri...	6.000	END MILL
	13	Descri...	6.000	SPOT DRILL
Revo...				

Channel Synchronization

**Setup Sheet**

Stage	Tool	Position	Dimensions
S1	G630	X1 XD Y1 Z1 B1 C1	-1
S1	Face MS	X1 XD Y1 Z1 B1 C1	0:04
S1	OD Turn Seg 1 - MS	X1 XD Y1 Z1 B1 C1	0:08
S1	Face XZCB + Comp - MS	X1 XD Y1 Z1 B1 C1	0:12
S1	Radial X1Z1C1B1 + Comp - I	X1 XD Y1 Z1 B1 C1	0:04
S1	Face X1Z1C1C1 + Comp - MS	X1 XD Y1 Z1 B1 C1	0:06
S1	Tilted X1Z1C1B1 + Comp - M	X1 XD Y1 Z1 B1 C1	0:03
S1	Reference-X1 + Move Y1	X1 XD Y1 Z1 B1 C1	0:01
S1	\$1 - Z1-Positioning Absolut	X1 XD Y1 Z1 B1 C1	0:01
S2	G630	X2 XD Y2 Z2 B2 C2	-2
S2	Face - BS	X4 X3 Y3 Z3 C2	0:04
S2	Face R X3Y3Z3 - BS	X4 X3 Y3 Z3 C2	0:14
S2	Face X3Y3Z3 + Comp - BS	X4 X3 Y3 Z3 C2	0:06
S2	Reference-Z3 with Part	X4 X3 Y3 Z3 C2	0:01
S2	Reference-X3 with Part	X4 Y3	-2-
S3	G630	X2 Y2 Z2 C2	-4
S3	Face - BS	X4 X3 Y3 Z3 C2	0:04
S3	Face X2C270Z2 + Comp - BS	X2 Y2 Z2 C2	0:04
S3	Face X2C270Z2 + Comp - BS	X2 Y2 Z2 C2	0:04
S3	Face X2C3Z2 + Comp - BS	X2 Y2 Z2 C2	0:08
S3	Reference-X2 + Move Y2_4	X2 Y2 Z2	0:01
S3	G620	X2 Y2 Z2 C1	-6
S3	Face X3Y3C3C3 + Comp - BS	X4 X3 Y3 Z3 C2	0:06
S3	Face X3C3Z3 + Comp - BS	X4 X3 Y3 Z3 C2	0:06
S3	Drill Face X3Y3Z3	X4 X3 Y3 Z3 C2	0:04
S3	Drill Face X3Y3C3Z3	X4 X3 Y3 Z3 C2	0:04

Total machining time: 00:02:47

Tool Viewer

**Tool View**

Measurement

- Fit
- Fit by box
- Rotate
- Move
- Zoom In/Out
- Stay in the last View
- Standard Views
- Shaded
- Focus
- Transparent
- Wireframe
- Wireframe (hidden lines)
- Tool Selfie
- Setup Sheet Capture View
- Save as STL ...

# 工藝單(Setup Sheet) – 通道同步表單

## □ 目前可匯出通道同步(Channel Synchronization)表單

\$1		\$2		\$3	
G630	-1-	G630	-1-	G630	-1-
Setup	0:01	Face - BS	0:04	Face - BS	0:04
Face MS	0:04	Face X3Y3Z3 - BS	0:14	Face X3Y3Z3 - BS	0:14
OD Turn Seg 1 - MS	0:08	Face F X3Y3Z3 + Comp - BS	0:06	Face F X3Y3Z3 + Comp - BS	0:06
Face XZCB + Comp - MS	0:12	Reference-Z3 with Part	0:01	Reference-Z3 with Part	0:01
G630	-2-	G630	-2-	G630	-2-
Radial X1Z1C1B1 + Comp - MS	0:04	G632	0:03	G630	-2-
Radial X1Z1C1 + Comp - MS	0:04	G630	-4-	G630	-4-
Face X1Z1C1B1 + Comp - MS	0:06	OD Finish - BS	0:06	OD Finish - BS	0:06
Tilted X1Z1C1B1 + Comp - MS	0:03	Face X2C90Z2 + Comp - BS	0:04	Face X2C90Z2 + Comp - BS	0:04
Reference-X1 + Move Y1	0:01	Face X2C270Z2 + Comp - BS	0:04	Face X2C270Z2 + Comp - BS	0:04
\$1 - Z1-Positioning Absolut	0:01	Face X2C3Z2 + Comp - BS	0:08	Face X2C3Z2 + Comp - BS	0:08
		Reference-X2 + Move Y2_4	0:01	Reference-X2 + Move Y2_4	0:01
		G630	-5-	G630	-5-
		Face X3Y3Z3C3 + Comp - BS	0:06	Face X3Y3Z3C3 + Comp - BS	0:06
		Face X3C3Z3 + Comp - BS	0:06	Face X3C3Z3 + Comp - BS	0:06
		Drill Face X3Y3Z3	0:04	Drill Face X3Y3Z3	0:04
G620	-6-	G620	-6-	G620	-6-
G620	-7-	G620	-7-	G620	-7-
		Drill Face X3YC3Z3	0:04	Drill Face X3YC3Z3	0:04
		Face X2C-90Z2 + Comp - MS_1	0:04	Face X2C-90Z2 + Comp - MS_1	0:04
		Face X2C-270Z2 + Comp - MS_2	0:04	Face X2C-270Z2 + Comp - MS_2	0:04
		Face X2Z2C1 + Comp - MS	0:07	Face X2Z2C1 + Comp - MS	0:07
		Radial X2Z2Y2 + Comp - MS	0:05	Radial X2Z2Y2 + Comp - MS	0:05
		Reference-X2 + Move Y2_3	0:01	Reference-X2 + Move Y2_3	0:01
G610	-8-	G610	-8-	G610	-8-
OD Turn Seg 2 - MS	0:07	G610	-8-	G610	-8-
Reference-X2 + Move Y2_2	0:01				
G630	-9-				
Radial XZCB + Comp - MS_2	0:16	G630	-9-	G630	-9-
Radial XZC + Comp - MS	0:11	Radial X3Y3Z3C3 + Comp - BS	0:03	Radial X3Y3Z3C3 + Comp - BS	0:03
G630	-10-	DRILL	0:07	DRILL	0:07
		Tap	0:02	Tap	0:02
G630	-10-	G630	-10-	G630	-10-

Channel Synchronization

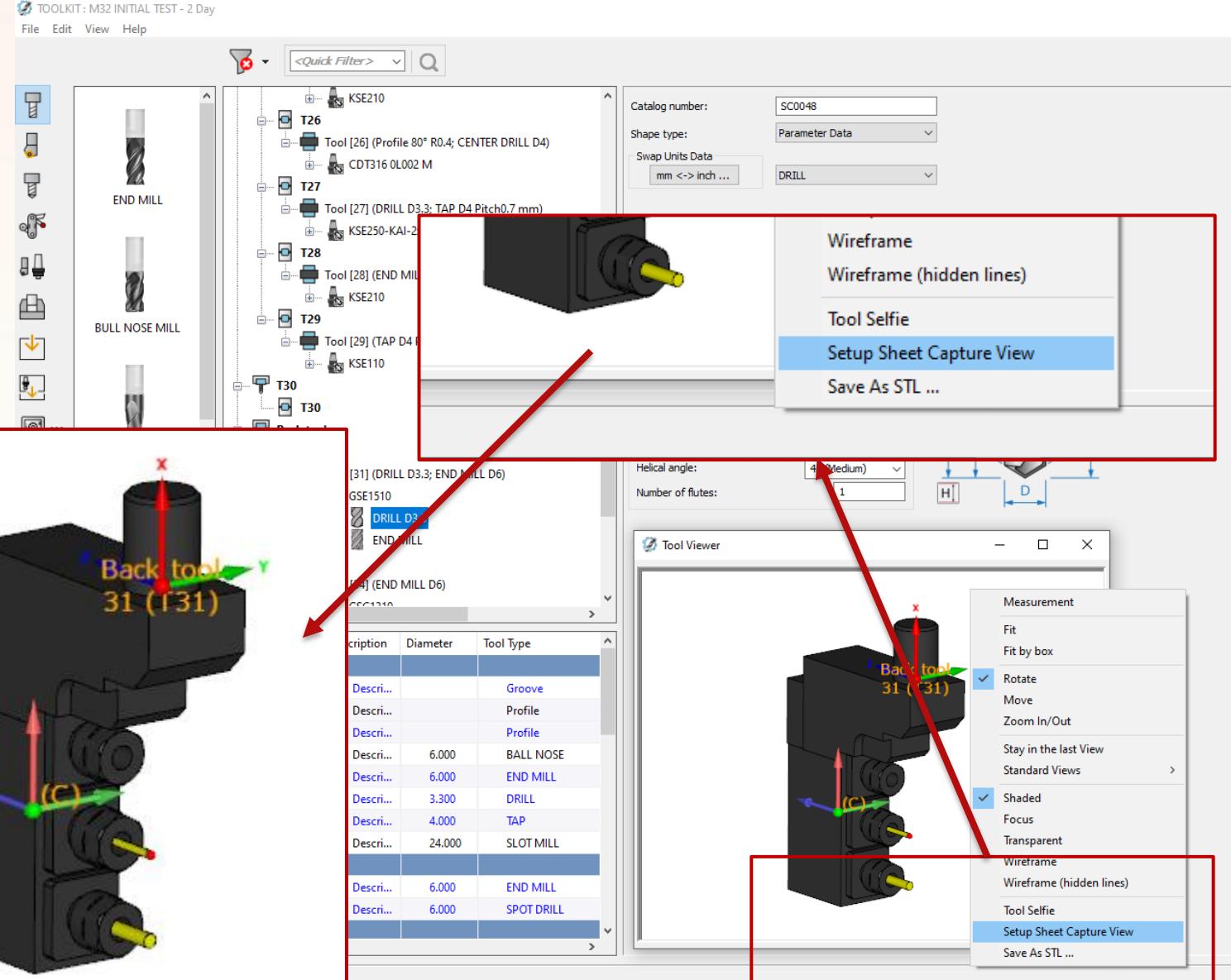
Total machining time: 00:02:47

□ 包含通道同步所有資料(包括操作圖片)的完整表格

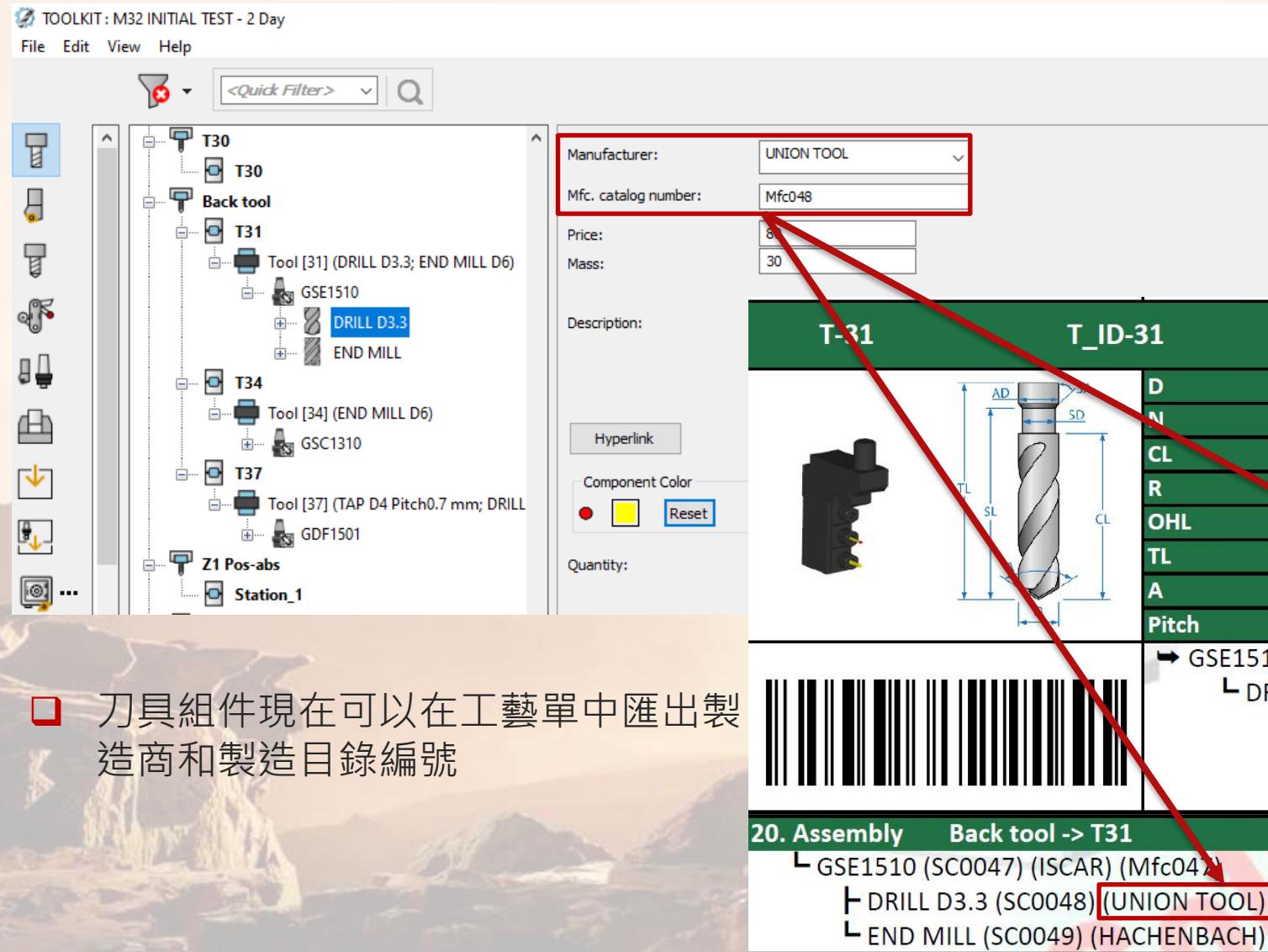


# 工藝單 – 撷取刀具視圖

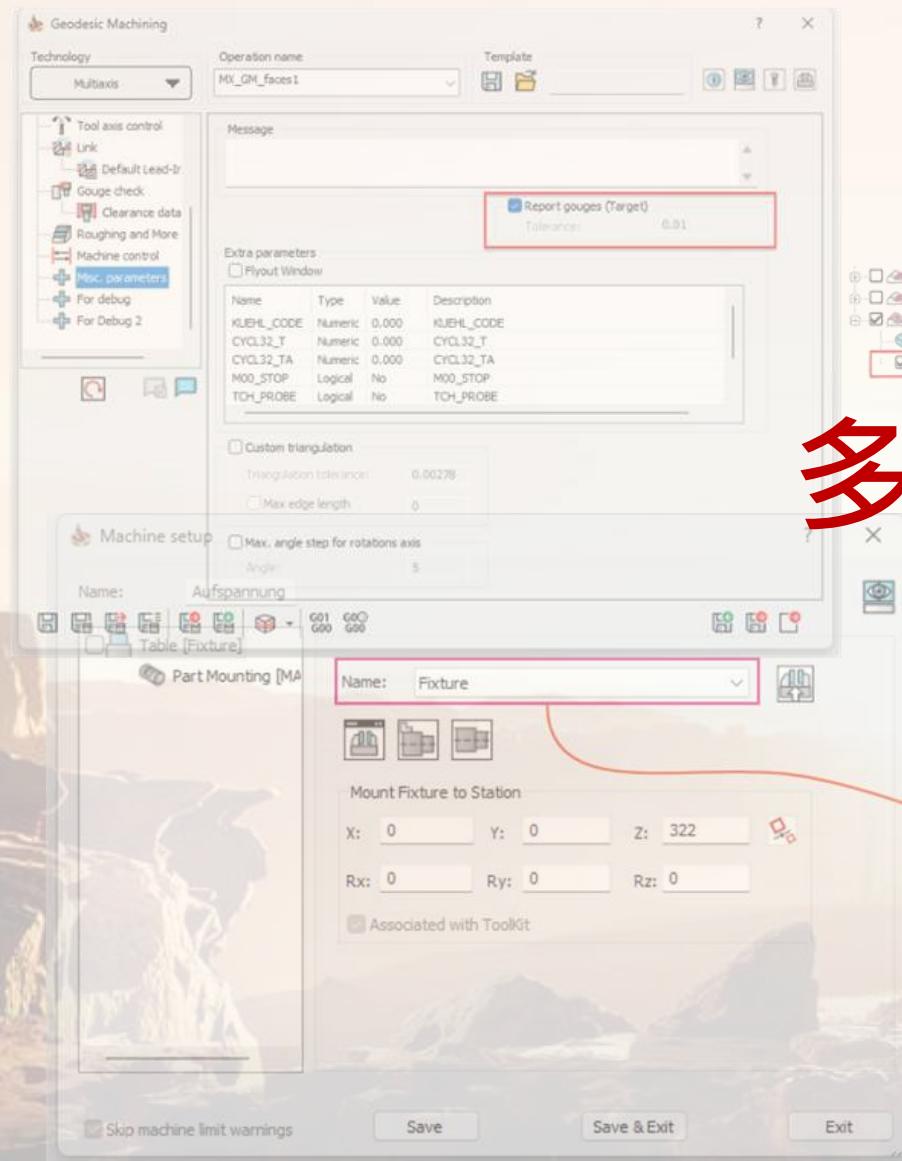
- 允許擷取刀具的自訂視圖影像
- 特殊刀具的視圖擷取將被保存,直到使用者更改它為止
- 擷取的視圖允需匯出至工藝單中



# 工藝單 – 支援 加工刀具庫資料 & 新變數



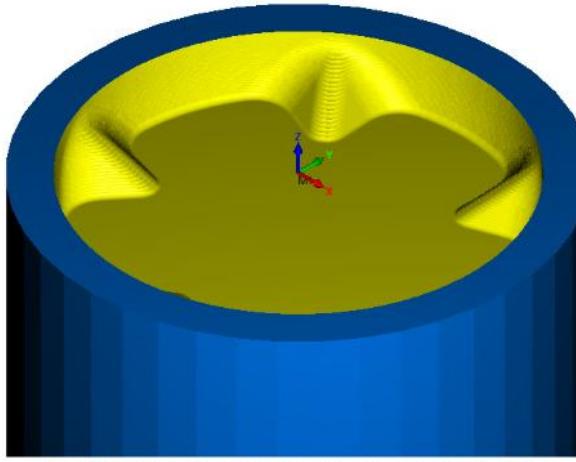
- ## □ 在不同部分新增許多新變數



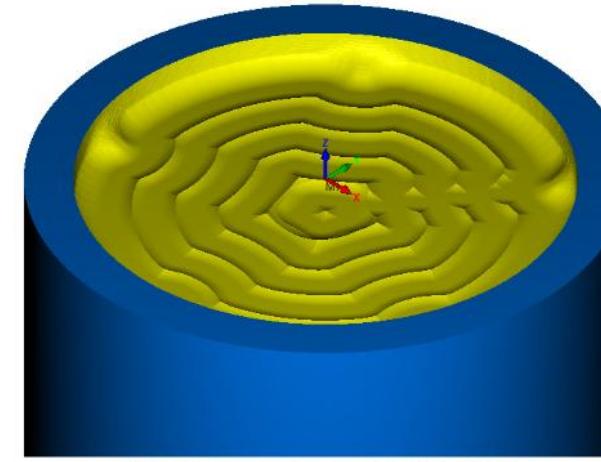
# 多軸 加工



# 用於3-軸加工的 複合式圓鼻刀(Convex Tip Mill)

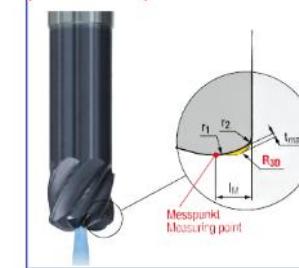


Cutting with Bullnose with Programmable Radius

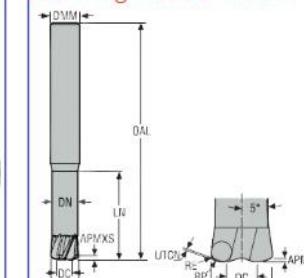


Cutting with real high feed cutting tool

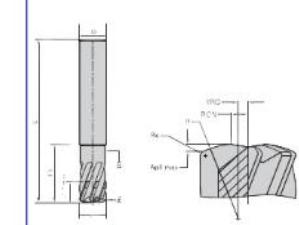
Emuge - Duplex Geometry (HPC &amp; HFC)



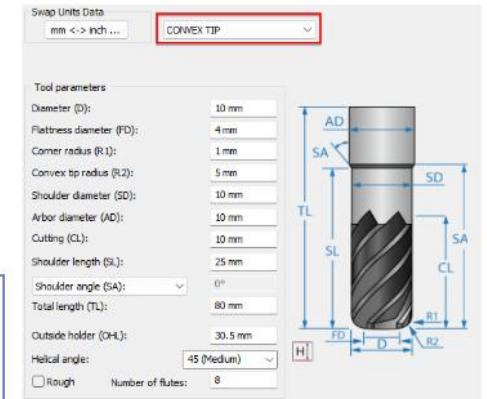
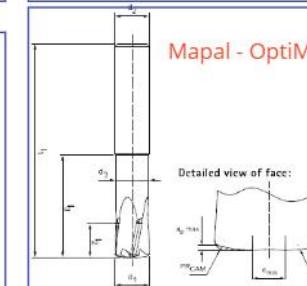
Soco - High feed universal



Kennametal - KenFeed



Mapal - OptiMill



## □ 複合式圓鼻刀:

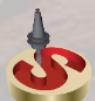
- 複合式圓鼻刀可將空心、向內彎曲的邊緣加工成指定的毛坯.
- 允許直接使用製造商提供的刀具實際輪廓.

## □ 支援的操作:

- Pro 3D HSR, Pro 3D HSM, 自動 3+2 軸粗加工與 HSS.

## □ 益處:

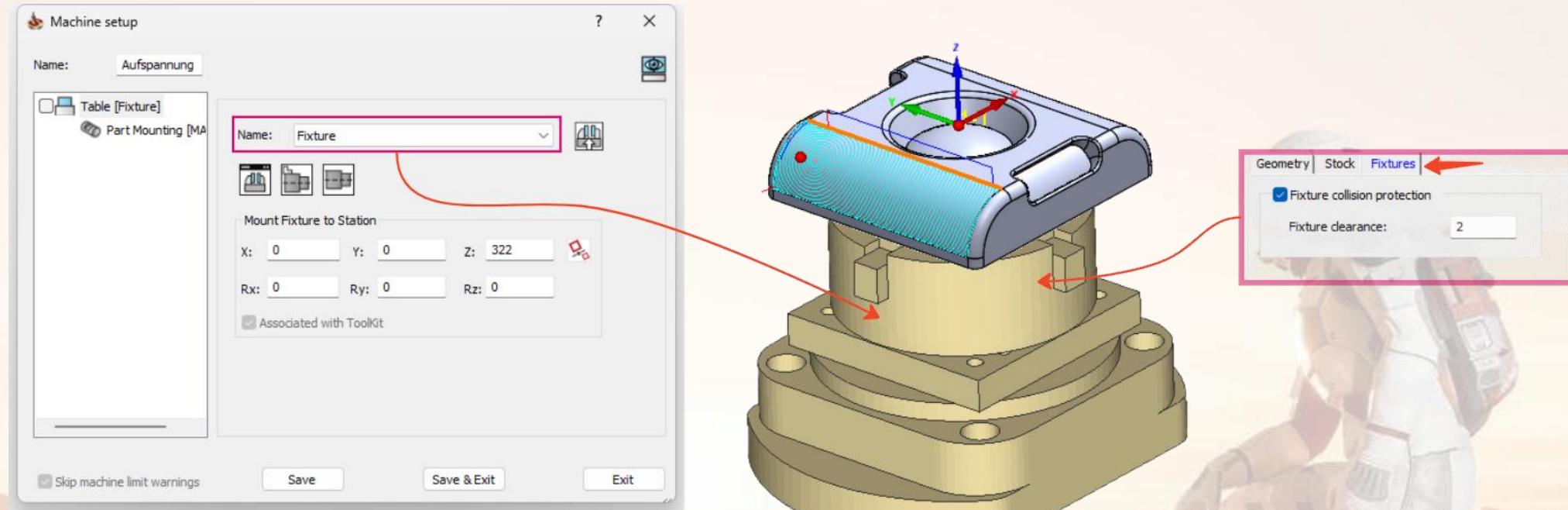
- 在刀具路徑計算考慮凸尖輪廓,並留出精確的毛坯,確保加工的精確性和安全性.
- 無需將高進給刀具定義為具有可編程半徑的圓鼻刀.



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# 設定夾具 用於 3-軸 與 多軸工作



## □ 夾具碰撞保護:

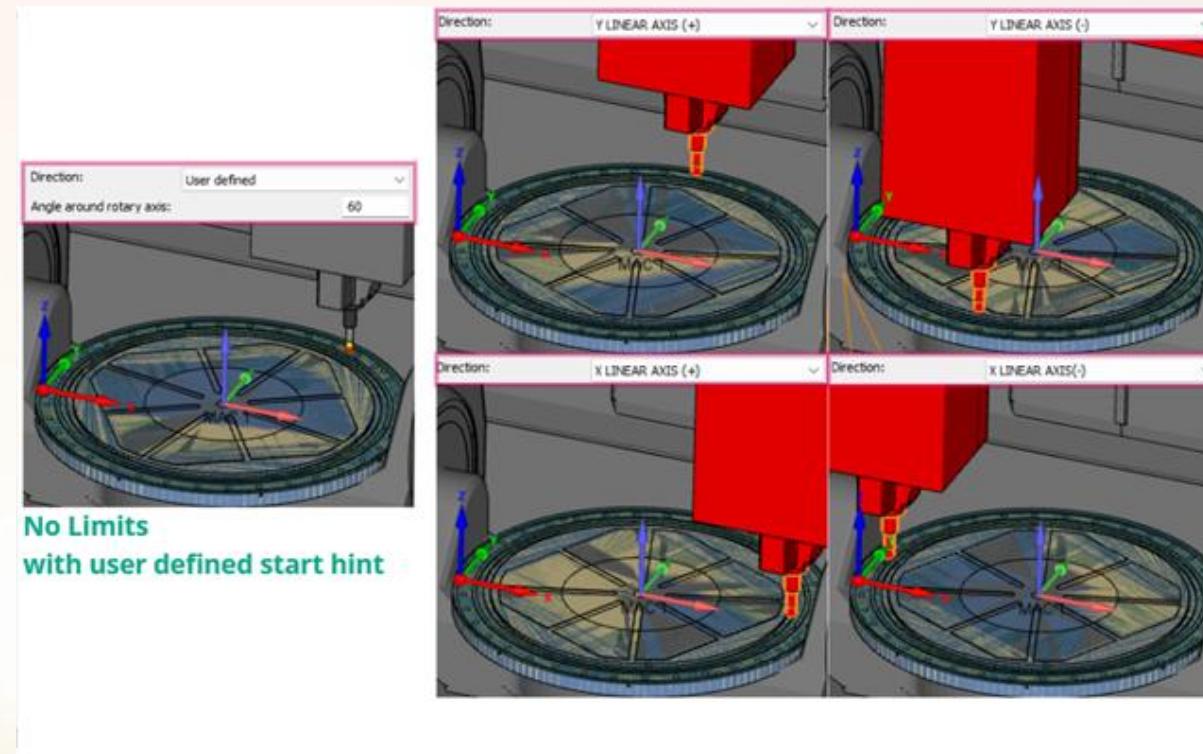
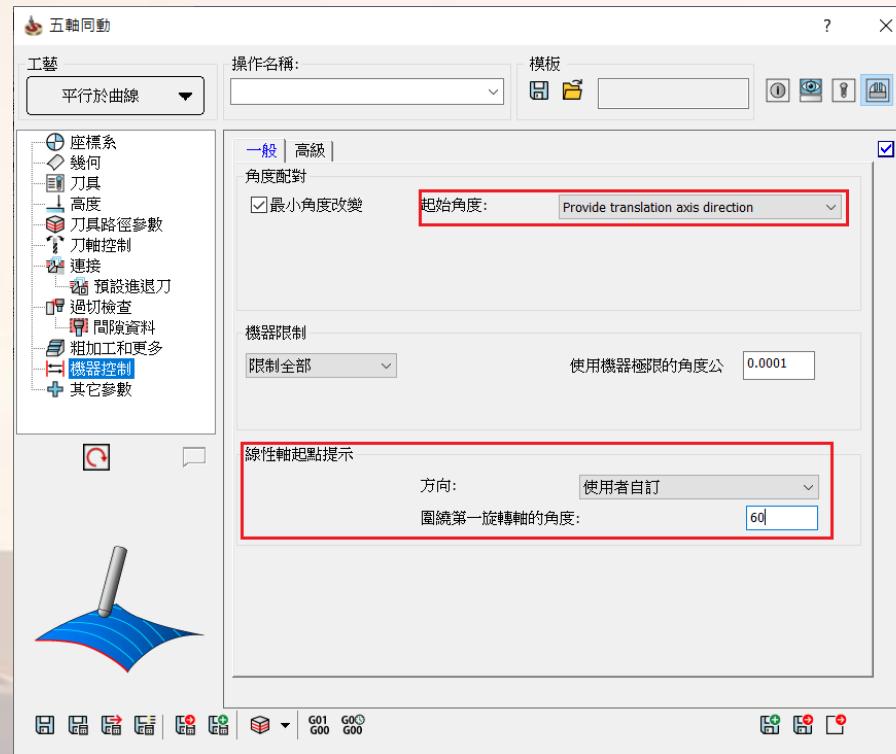
- 啟用後會自動修剪與夾具碰撞的刀具路徑,僅在設定中定義夾具時可用.

## □ 益處:

- 無需在作業中手動選擇夾具幾何形狀.
- 透過修剪與夾具相交的刀具路徑來,自動避免碰撞,從而提高工作流程效率.



# 機器控制 – 線性軸開始位置提示



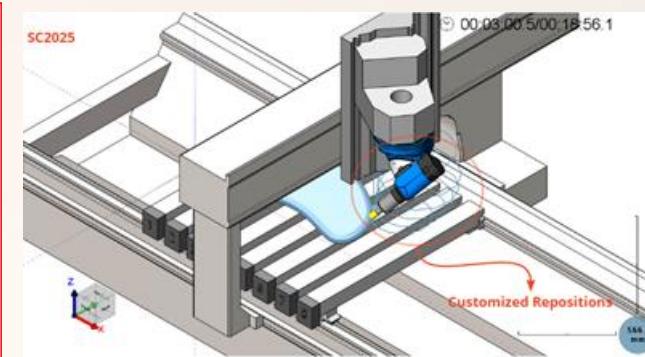
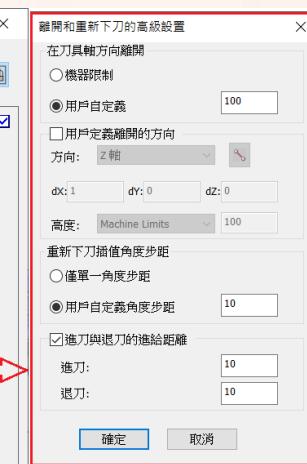
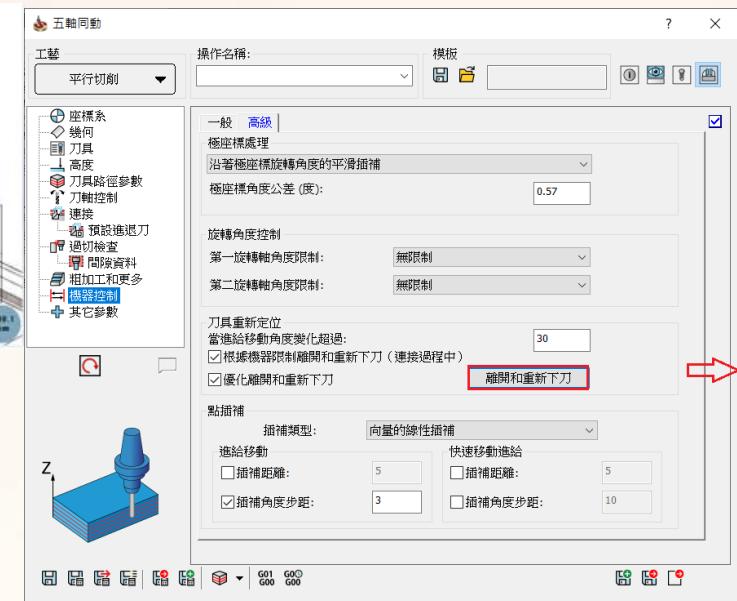
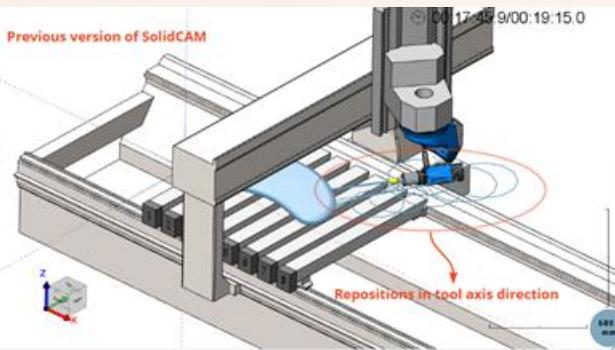
## □ 線性軸開始位置提示:

- SolidCAM 選定線性軸最接近起始位置的解.
- **益處:**
- 允許調整加工起點以克服機器線性軸限制,而無需改變原始刀具路徑.
- 節省刀具路徑生成的時間.



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# 機器控制 – 使用者自訂 退刀 & 迴轉(Rewinds)



## □ 退刀 & 重新下刀:

- 點選「高級」按鈕可開啟「離開(退刀)和重新下刀(迴轉)」對話框,你可以自訂退刀和迴轉的計算方式.你也可以設定退刀的退刀和進刀時的接近移動方式.

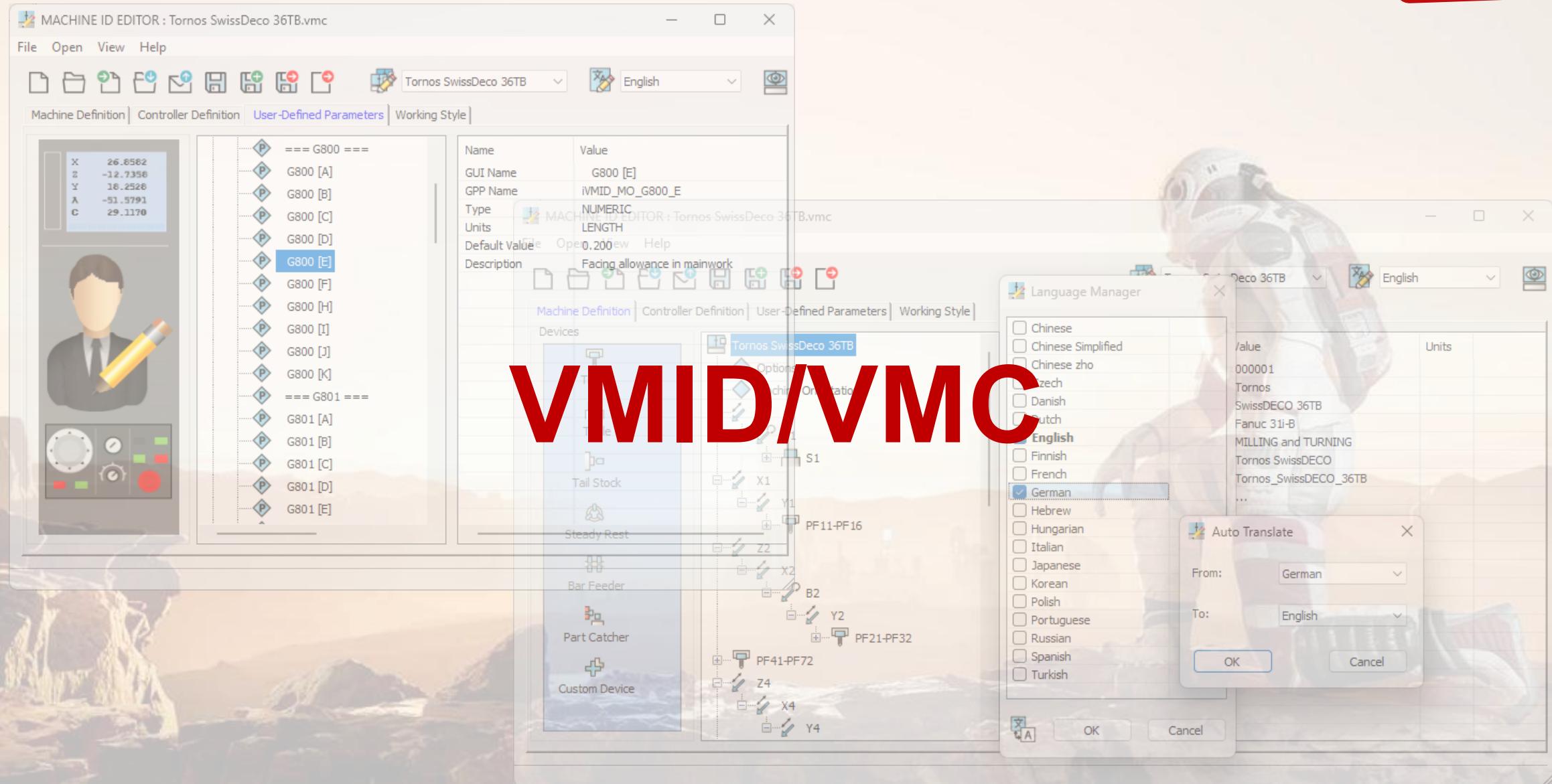
## □ 益處:

- 用戶可靈活提供控制退刀和迴轉移動.
- 允許自訂選擇重新定位方向,當機器上有多個零件時很有用.
- 讓退刀與進刀的移動更加順滑.



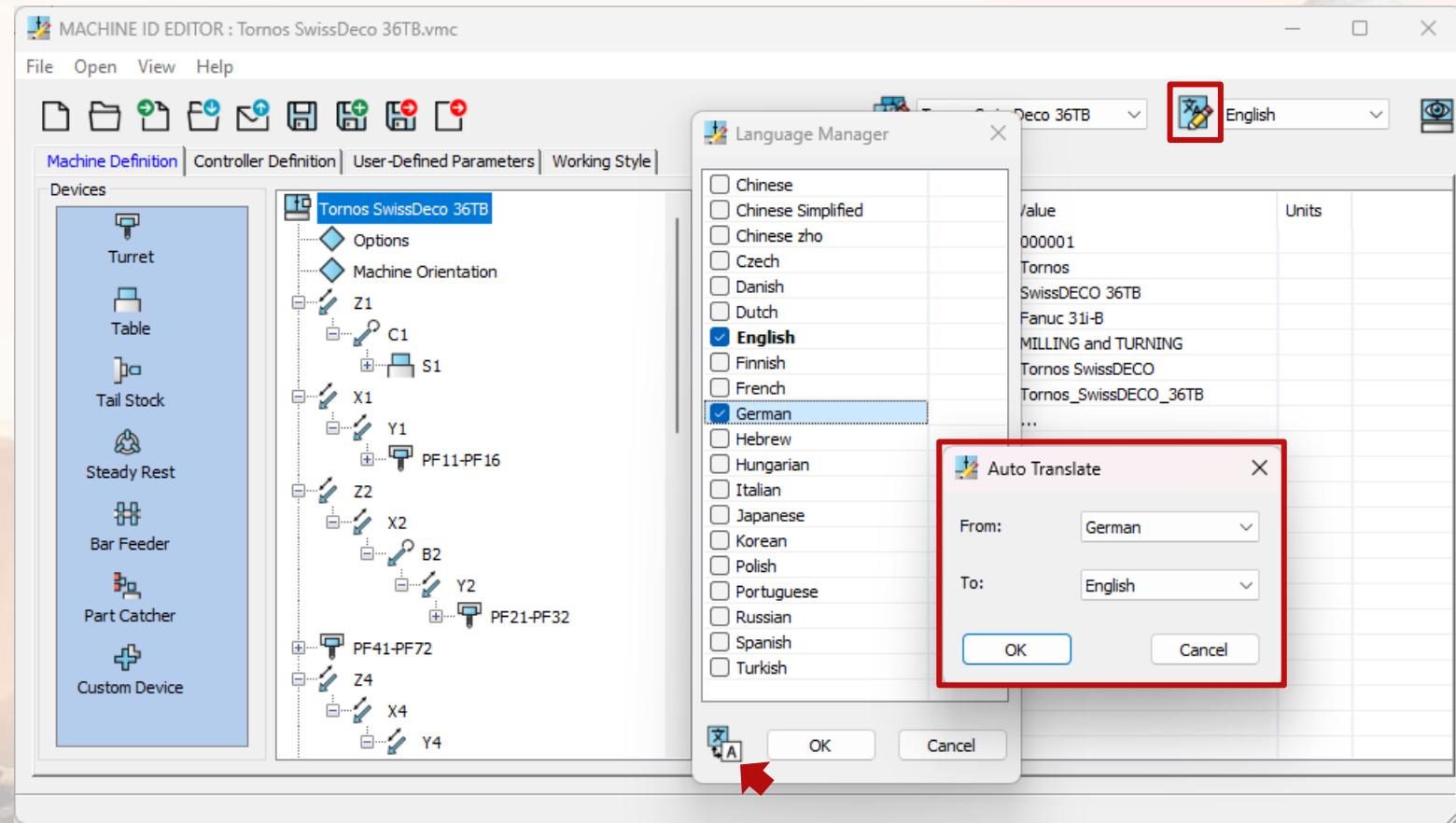
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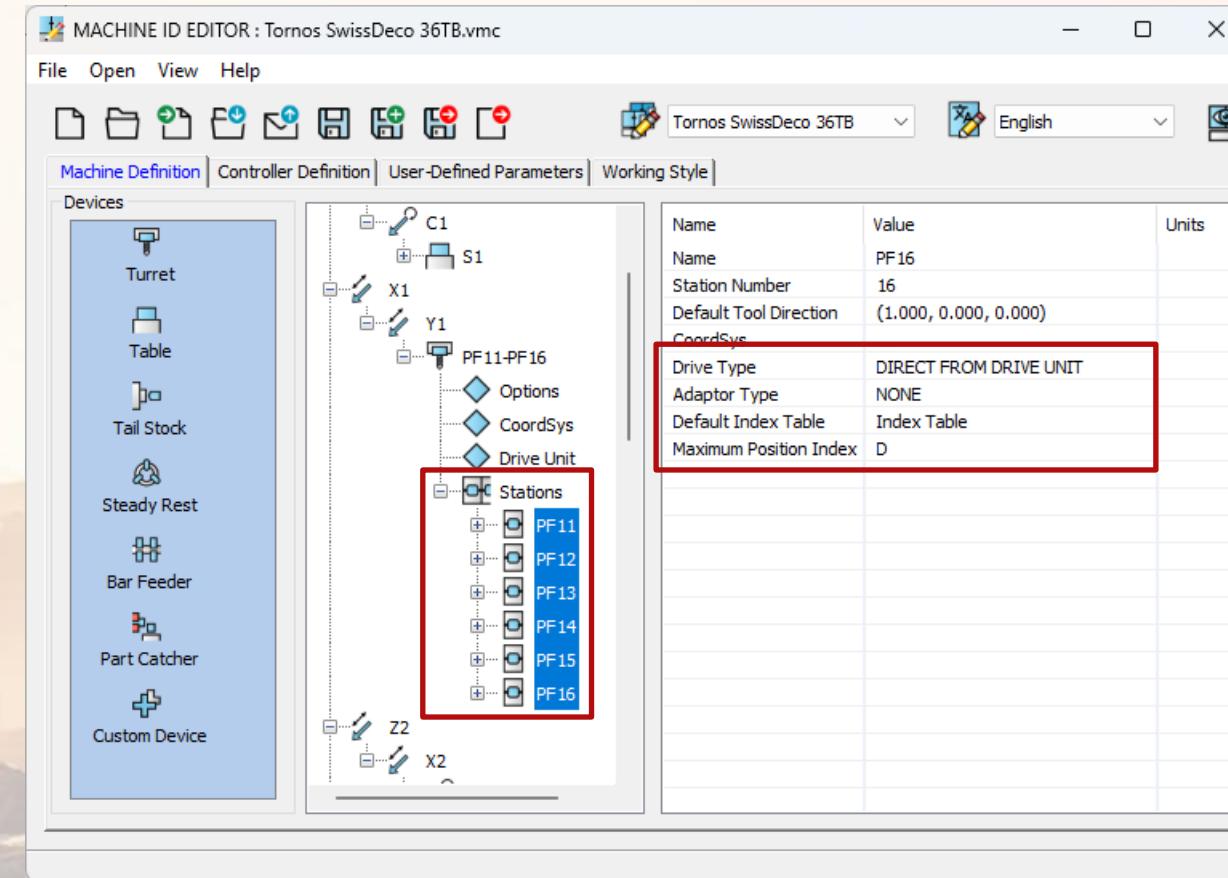
# VMC – 兩種語言間自動轉換

## □ VMC 增加兩種語言間的一般轉換



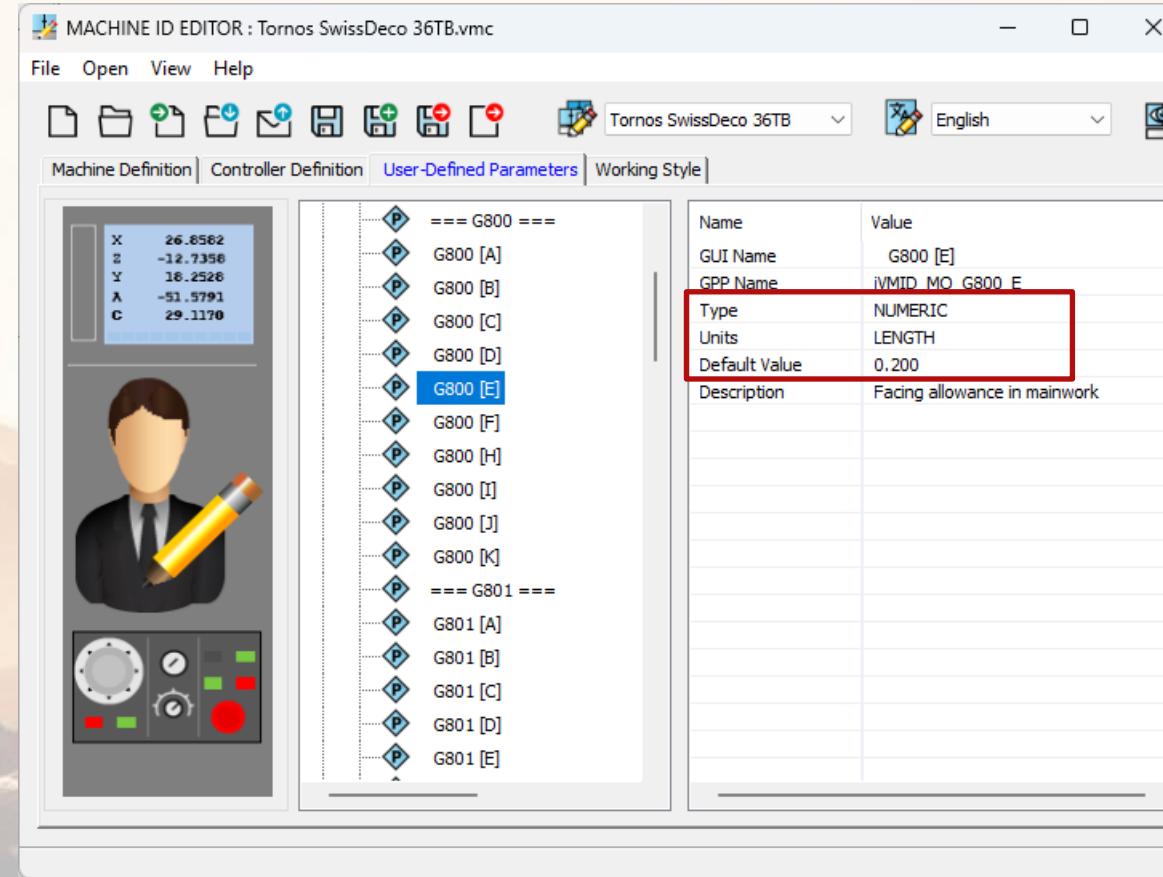
# VMC – 在刀塔上允許多重選擇與屬性的更改

## □ 在刀塔上允許多重選擇與屬性的更改



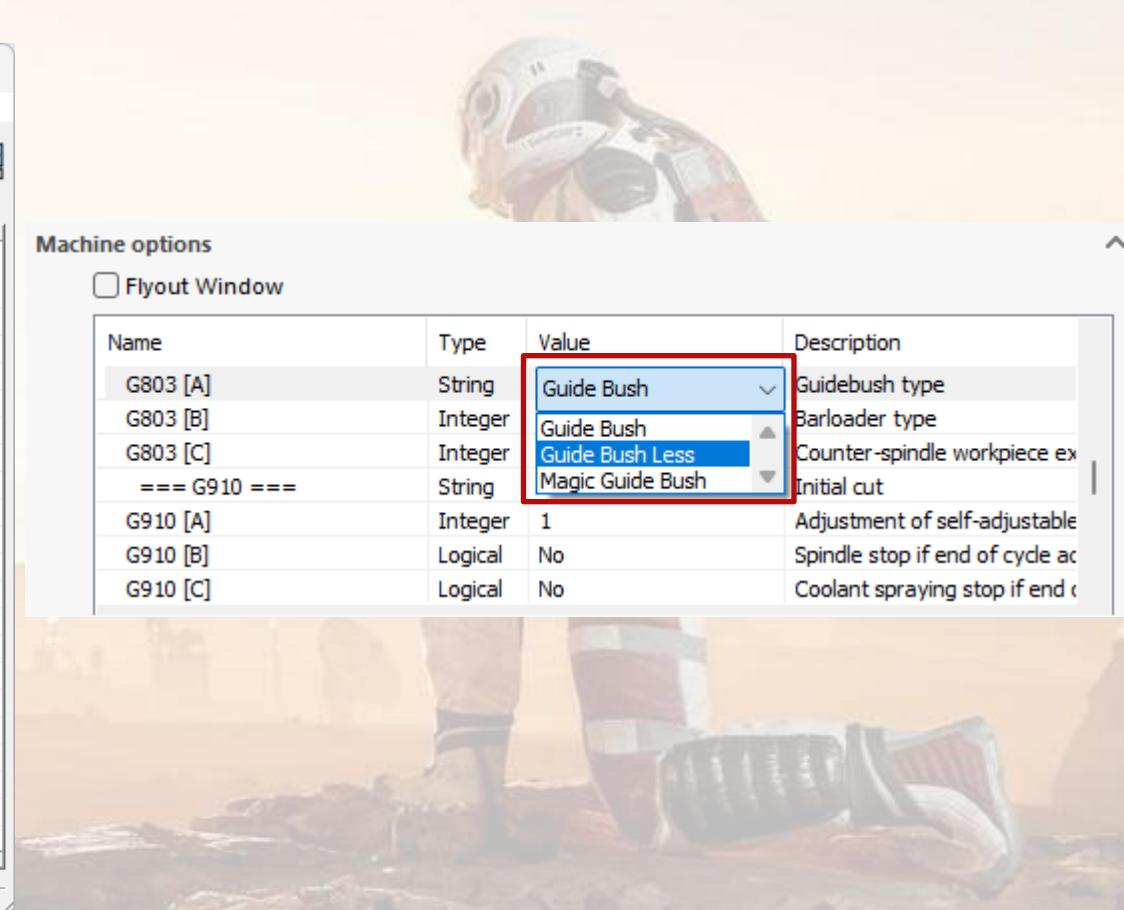
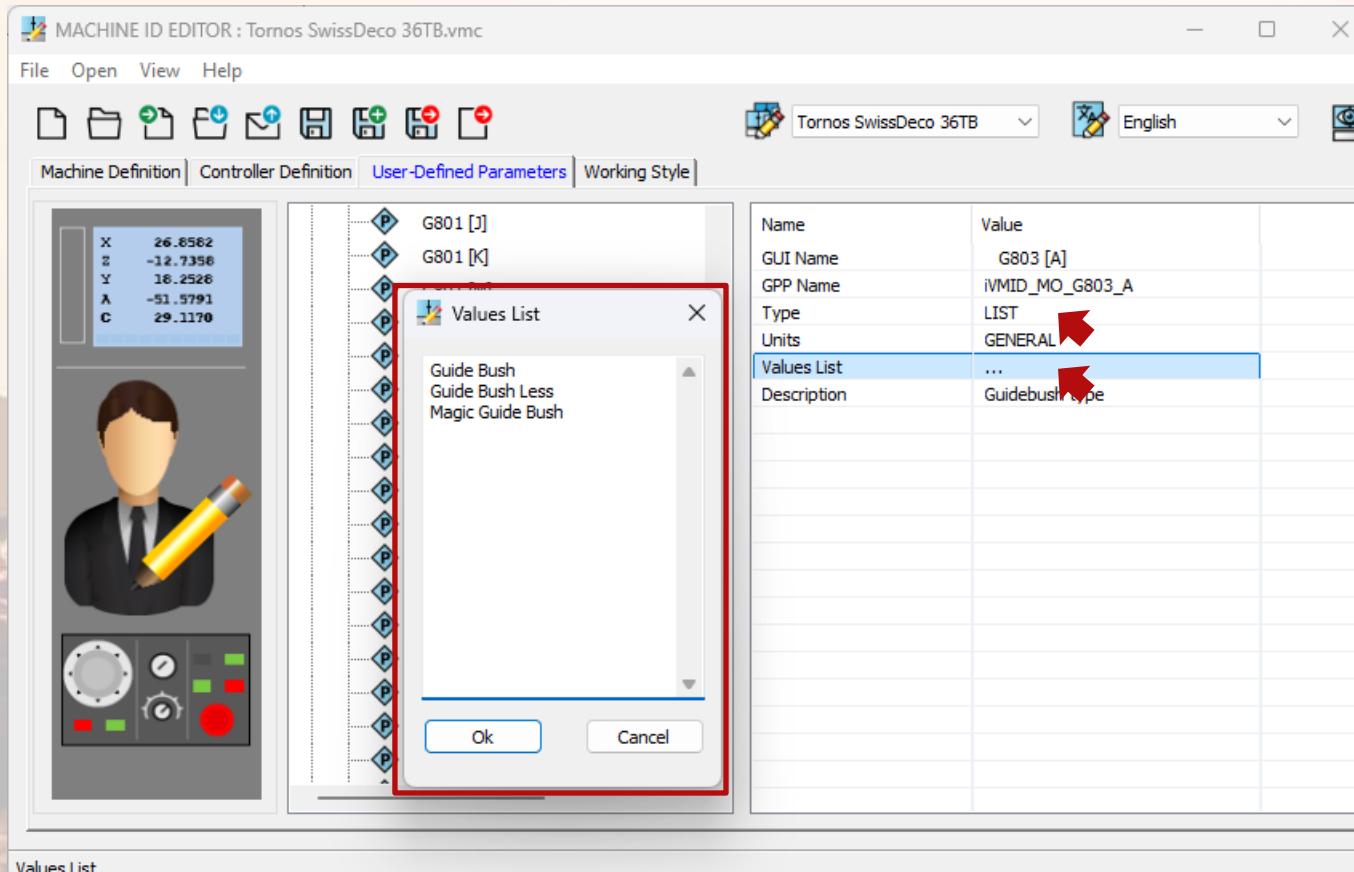
# VMC – 增加數值參數的單位

- 在 VMID 中增加數值參數的單位
- 將項目從公制轉換為英制,相反也一樣,包含設定為長度(LENGTH)的參數



# VMC – 新增組合框參數

- 組合框設定允許使用下拉式選單(LIST)在 VMID/VMC



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