

# **CREO ELEMENT-4**

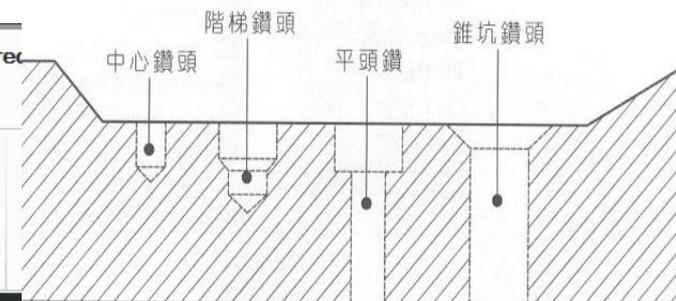
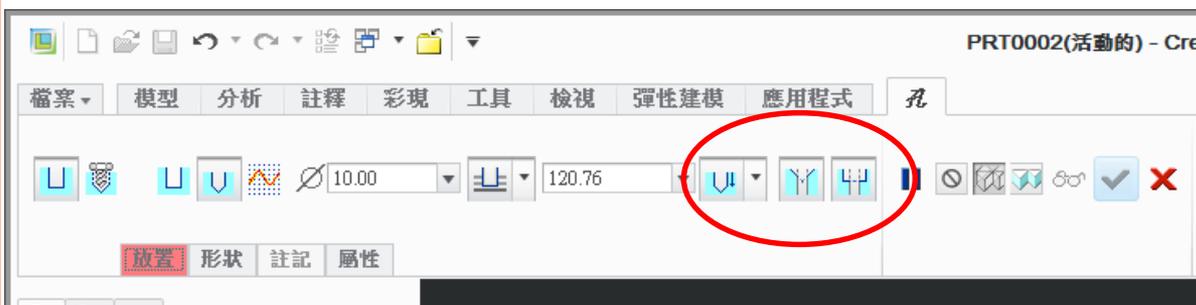
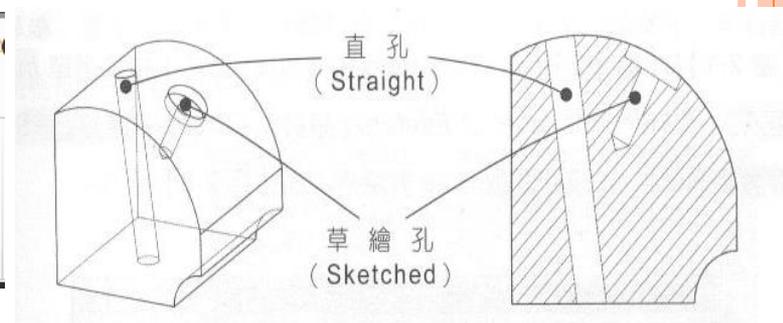
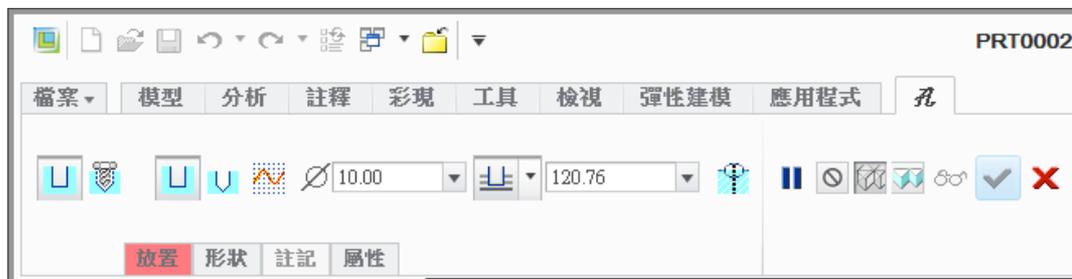
## **工程特徵**

**(HOLE/ROUND/CHAMFER/SHELL/RIB)**

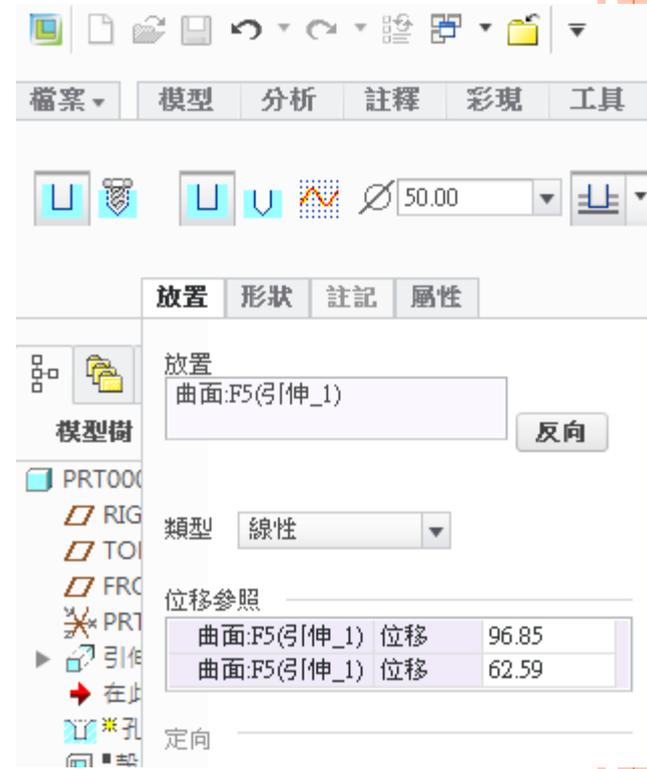
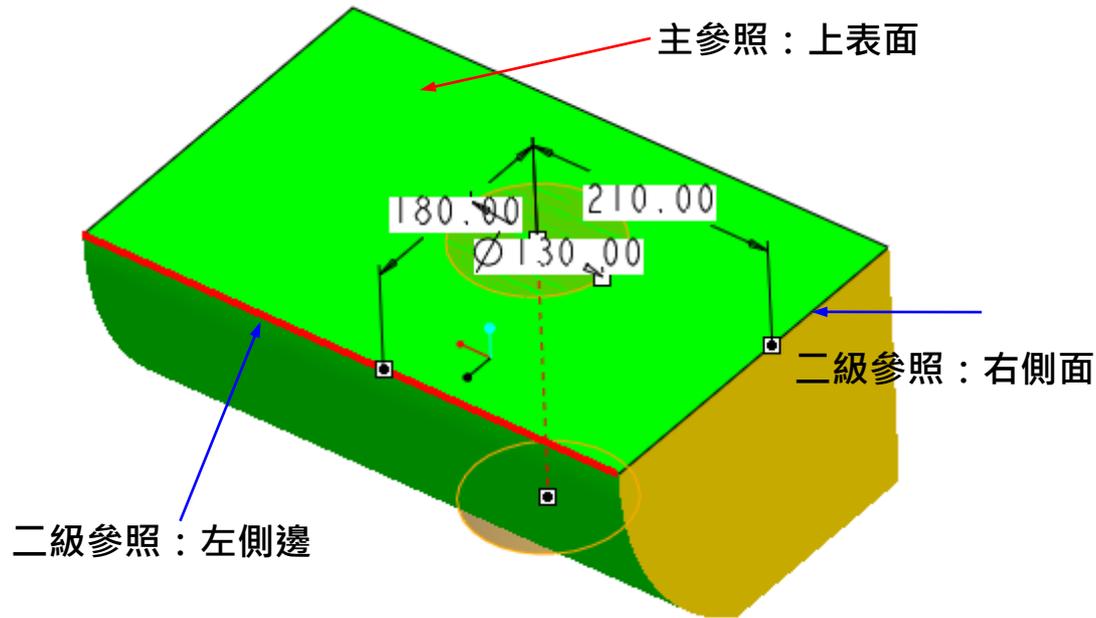
**國立陽明交通大學 生物醫學工程系**  
**林峻立 教授**

# 孔(Hole)-

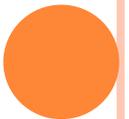
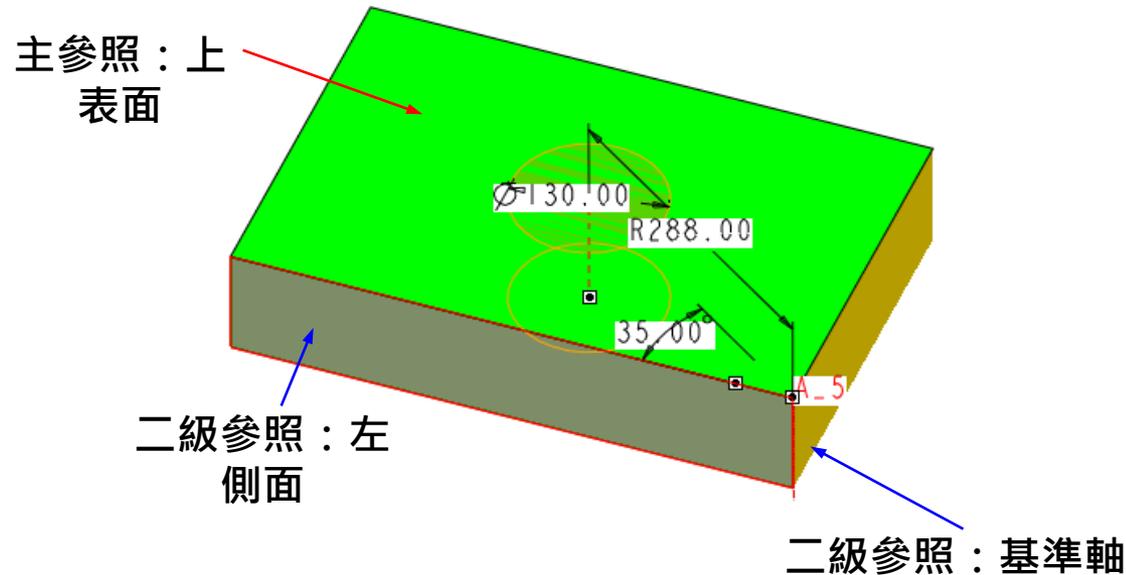
- 直孔->單純的、草繪
- 標準孔



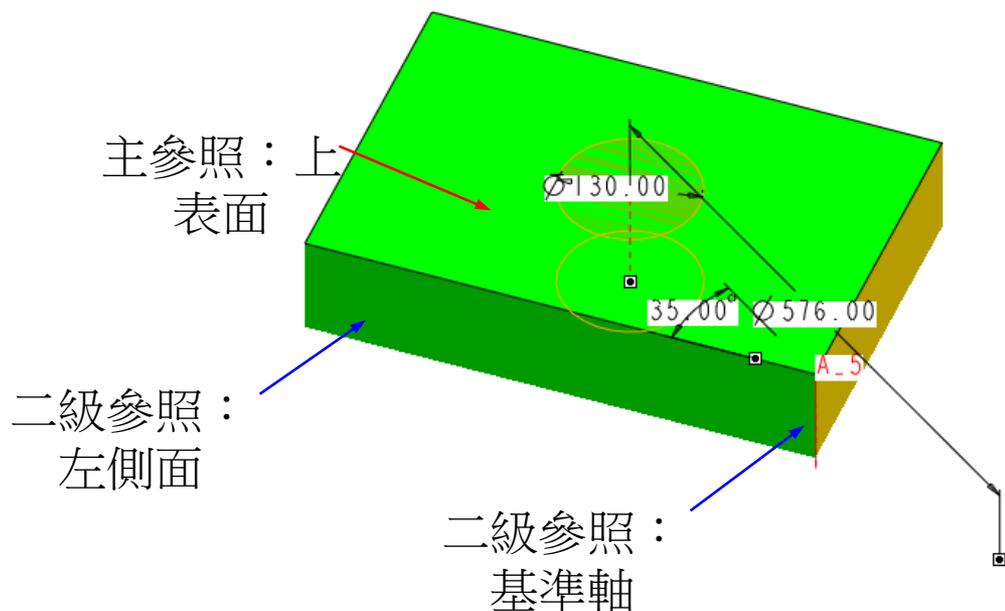
## ○ 「線性」 ( Linear )



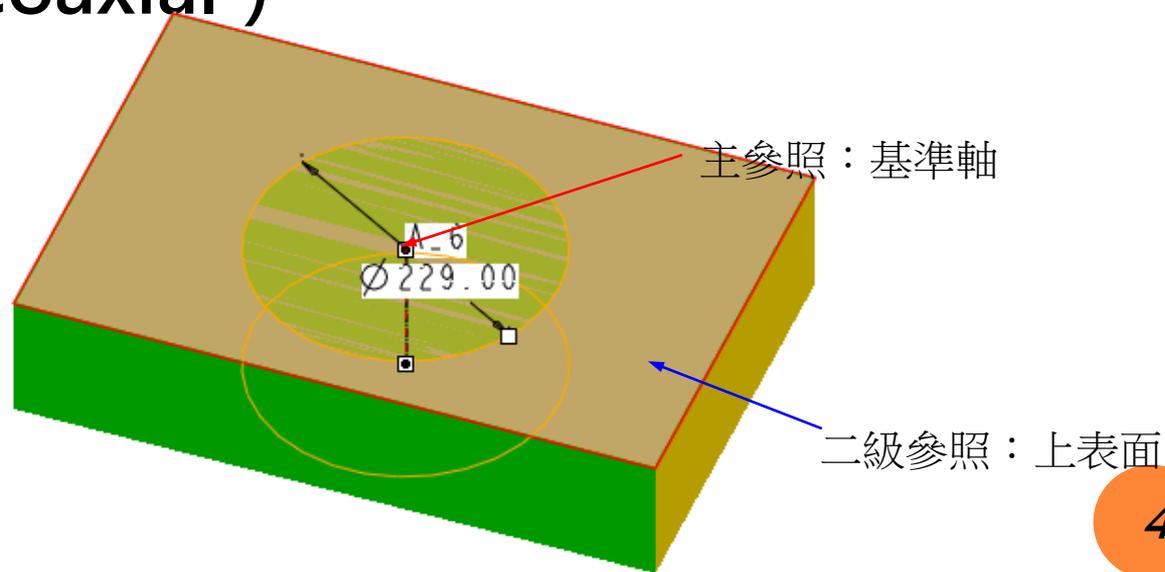
## ○ 「徑向」 ( Radial )



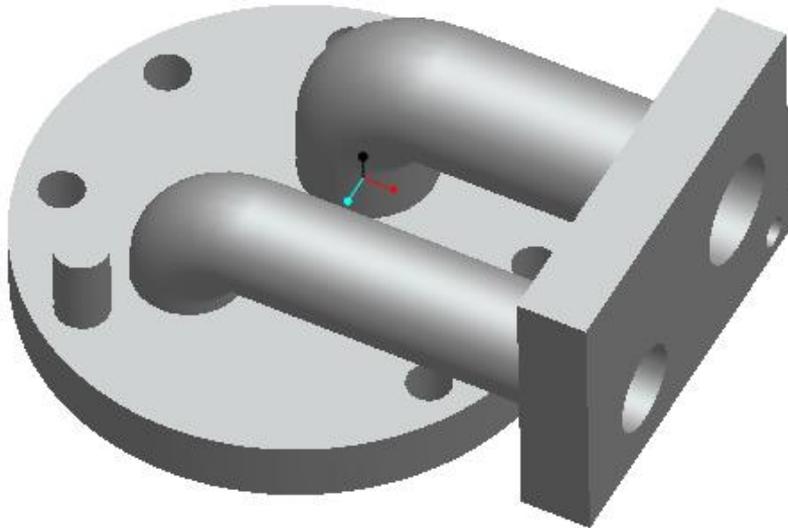
## ○ 「直徑」 ( Diameter )



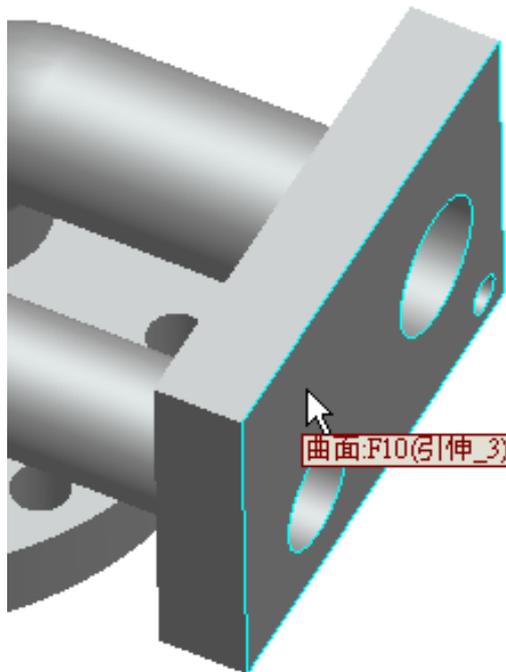
## ○ 「同軸」 ( Coaxial )



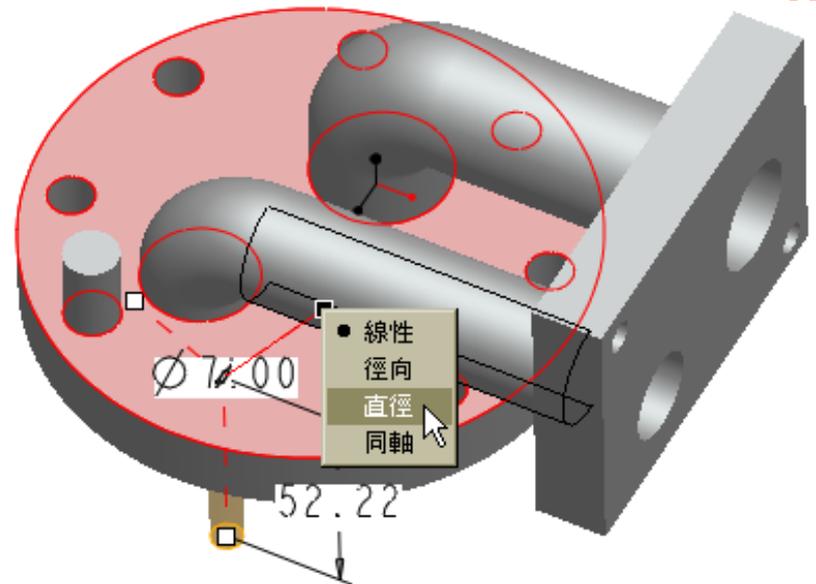
# Ex: 4-1



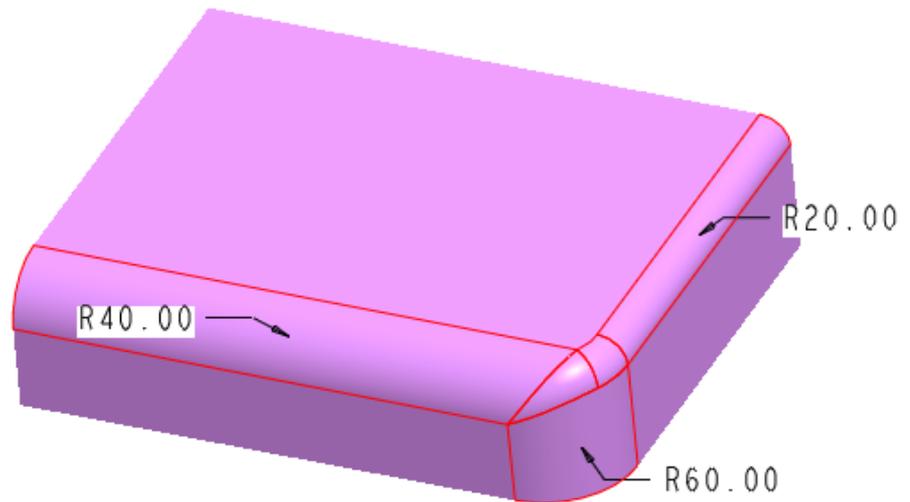
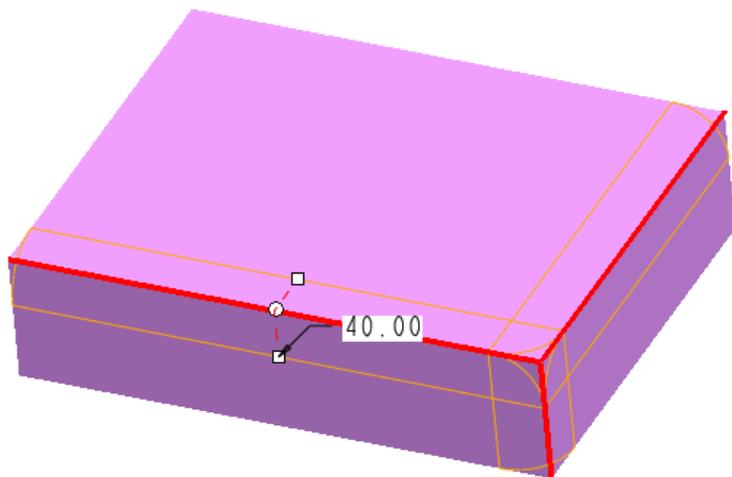
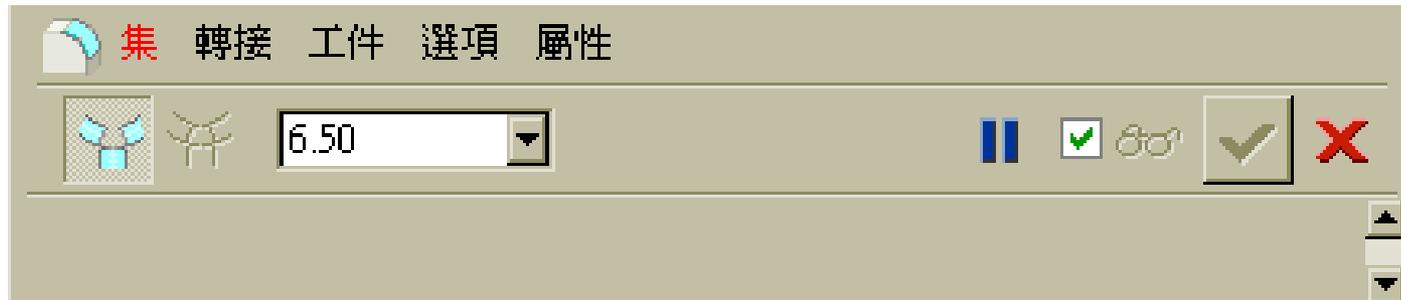
2. 徑向  
直徑距離100, 角度80  
直徑10 深度貫通



1. 線性  
雙邊距離8  
直徑7 深度6



# 倒圓角(ROUND)



設定1  
設定2  
設定3  
\*新集合

圓形  
0.00  
滾動球  
完全倒圓角  
貫通曲線

參照  
邊:F5(引伸\_1)  
細節...

骨架  
細節...

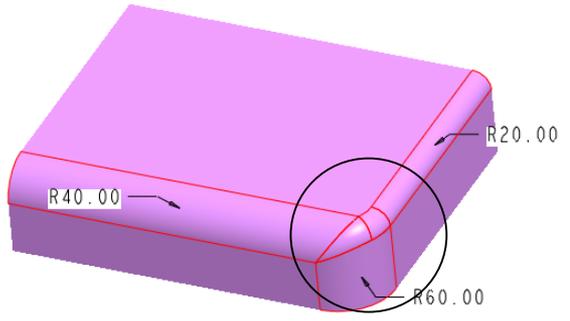
#	半徑
1	40.00

1 數值 參照

圓錐  
圓形  
D1 x D2 圓錐  
滾動球  
與骨架法向

圓角橫截面

圓角建立方式



集 轉接 工件 選項 屬性

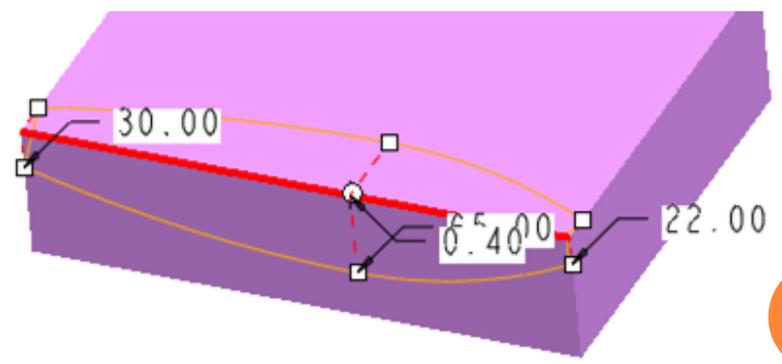
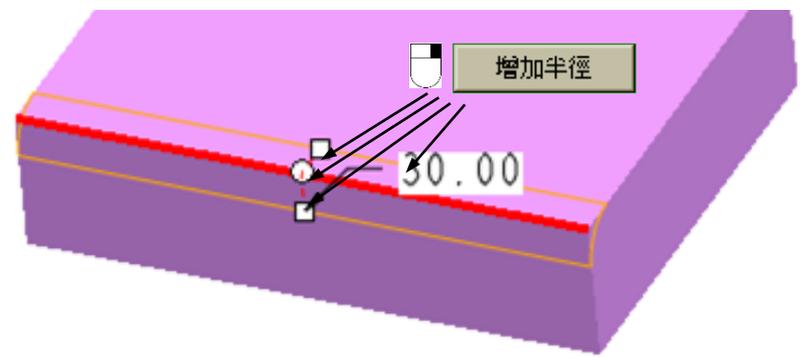
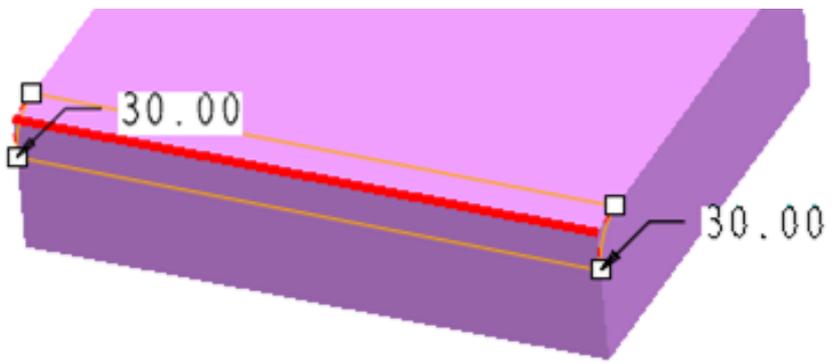
預設(僅限倒圓角 2)  
預設(僅限倒圓角 2)  
相交  
轉角球面  
僅限倒圓角1

全部

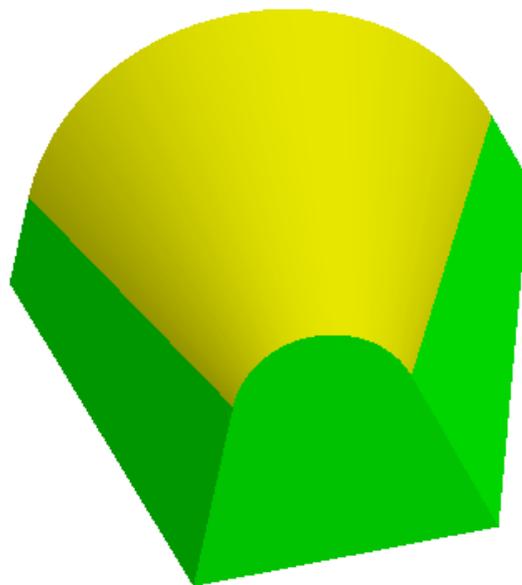
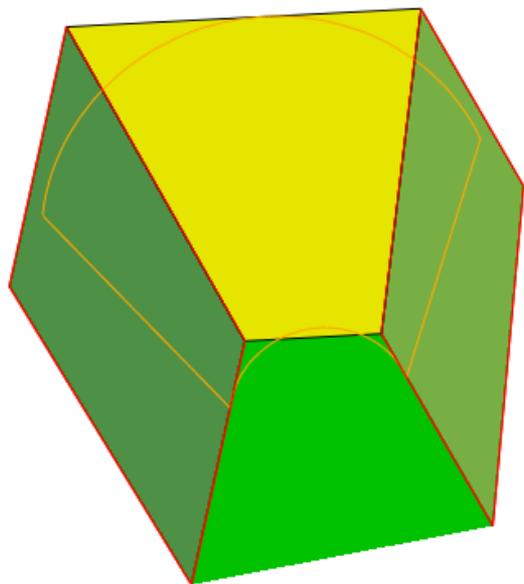
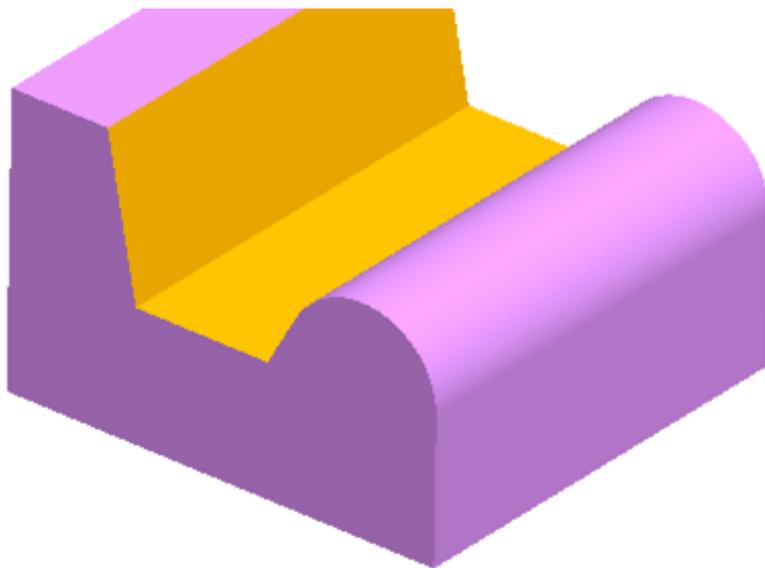
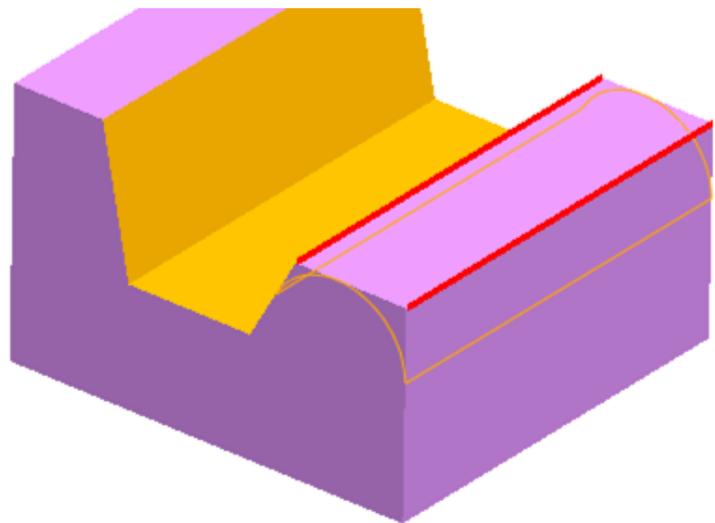
集 轉接 工件 選項 屬性

6.50

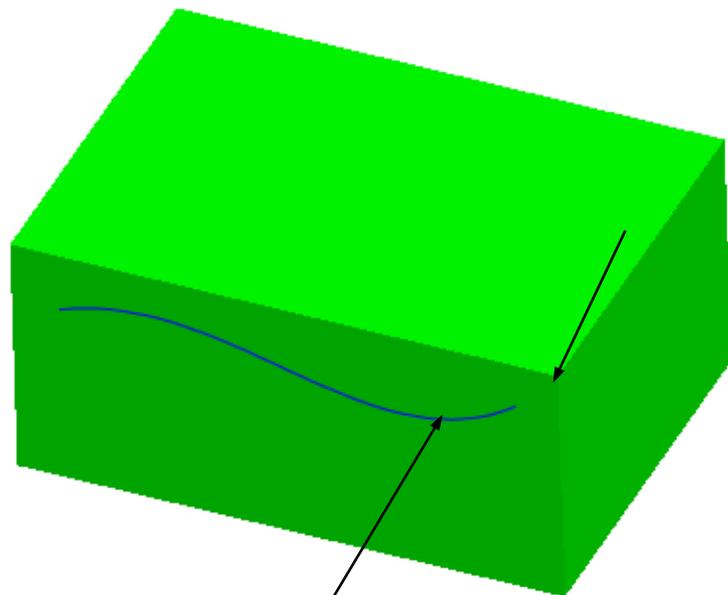
## 增加半徑



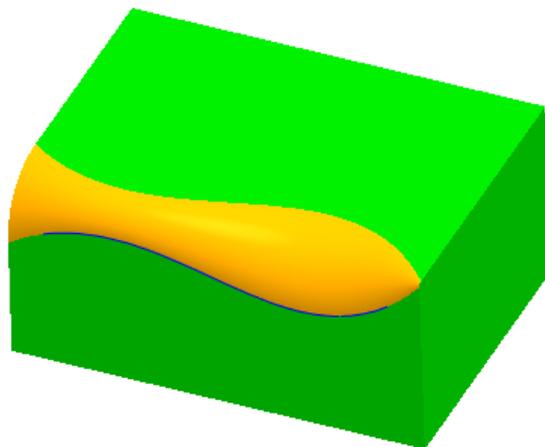
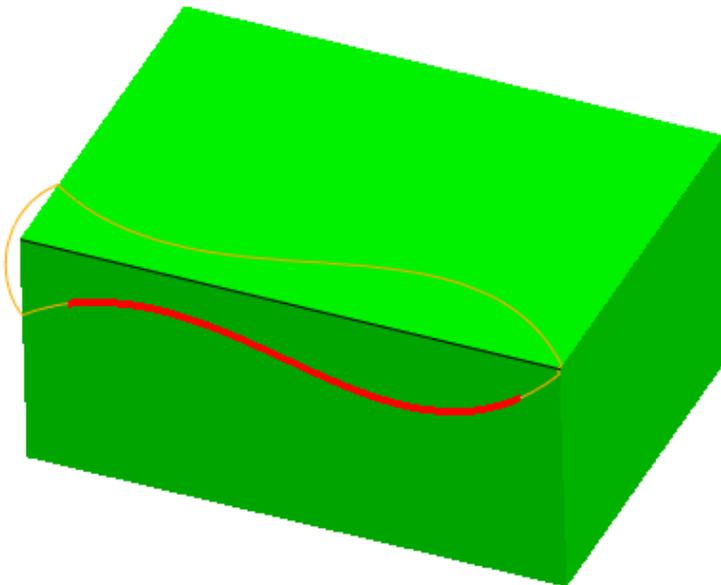
# 完全倒圓角(FULL ROUND)



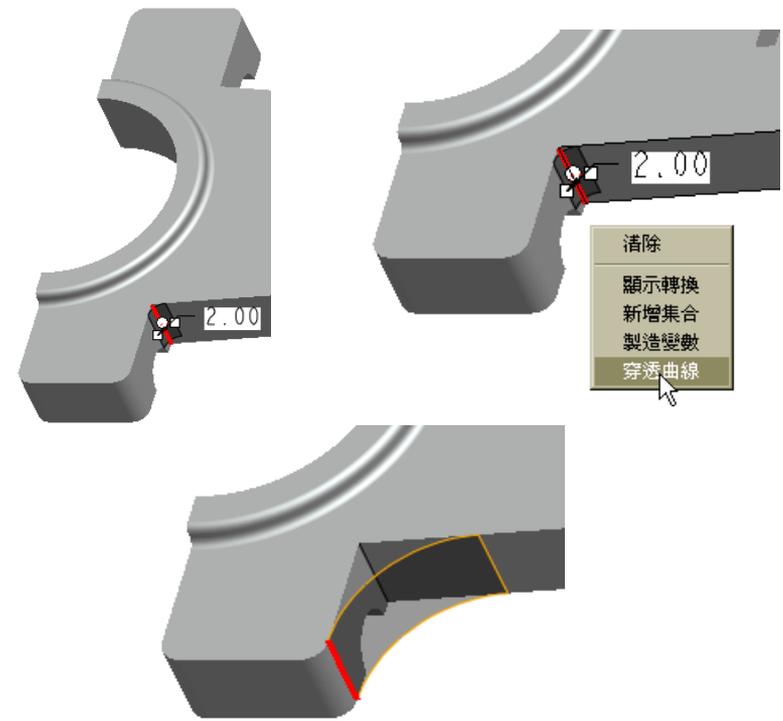
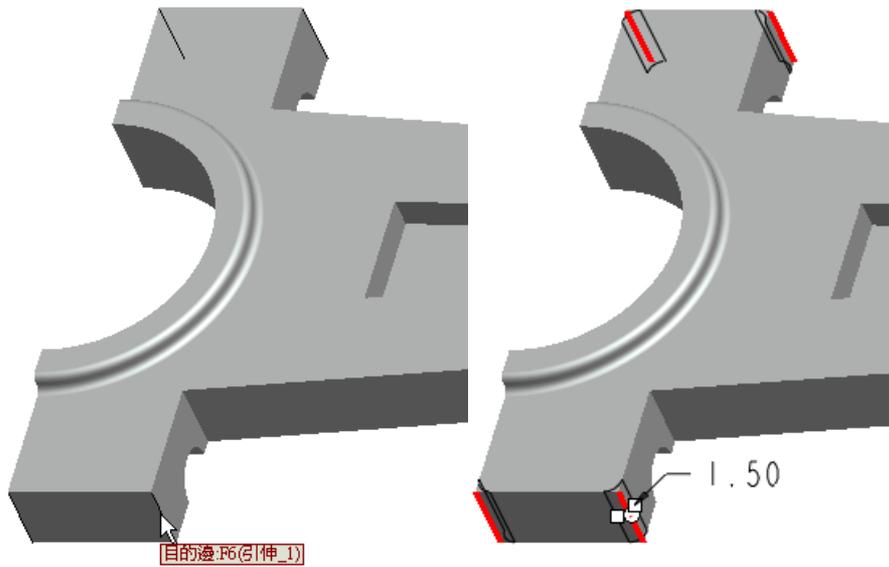
# 穿透曲線倒圓角



驅動曲線



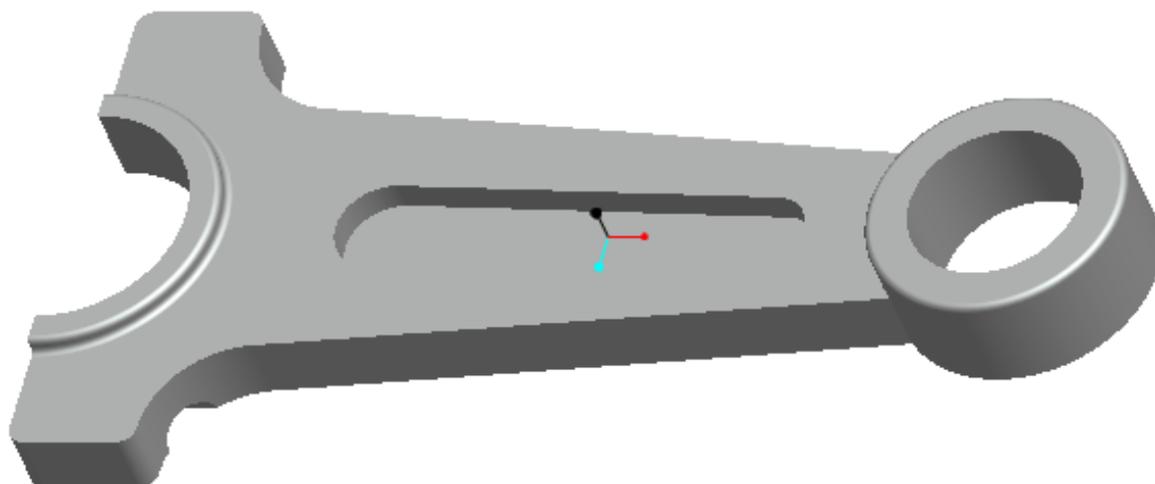
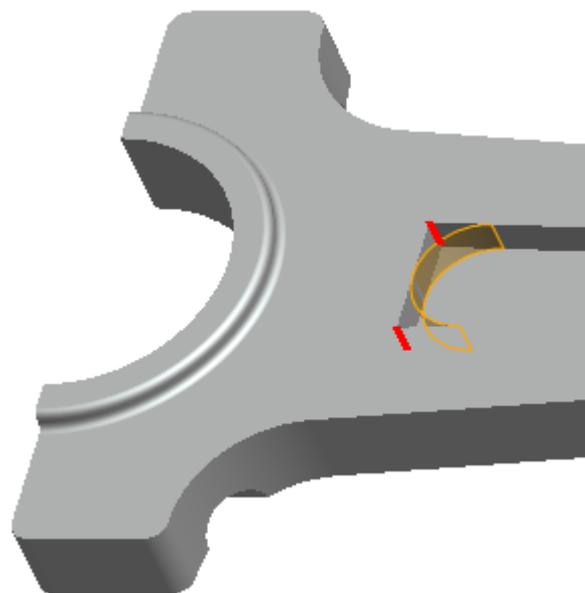
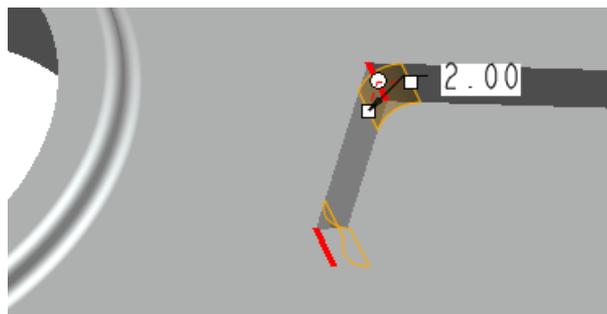
# Ex: 4-2



1.
  - a. 點一邊
  - b. 右下Intent edge
  - c. 半徑2

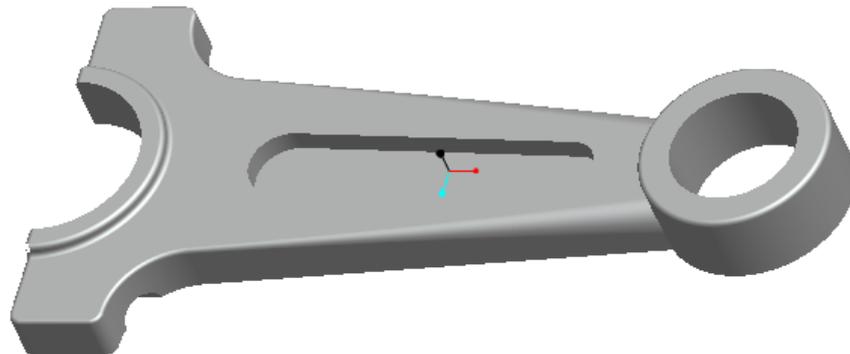
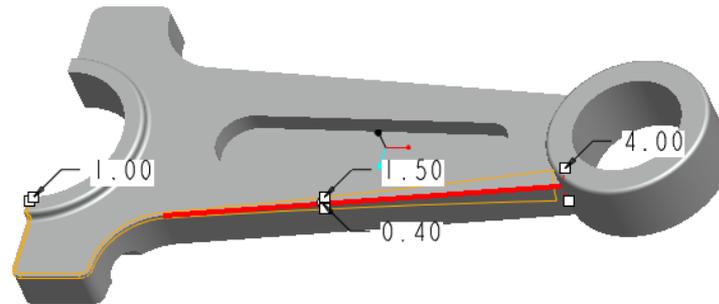
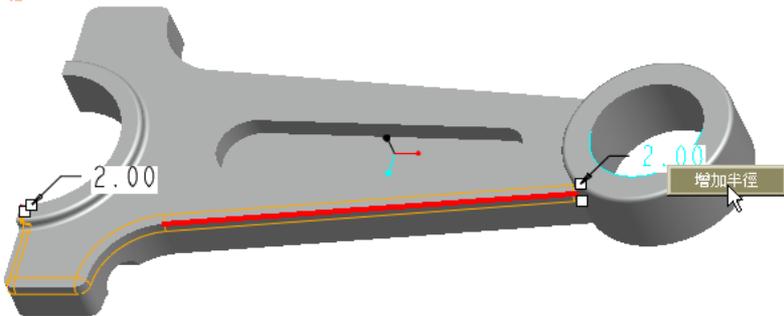
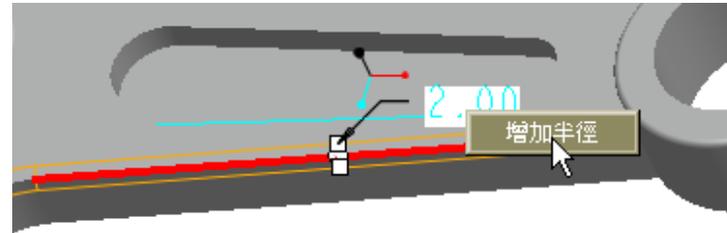
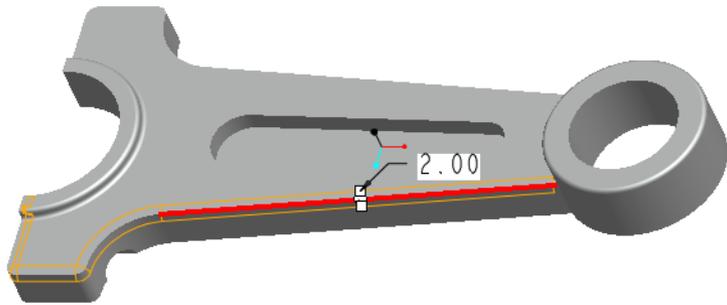
2.
  - a. 點一邊
  - b. Through curve (穿透曲線)

# 完全導圓角

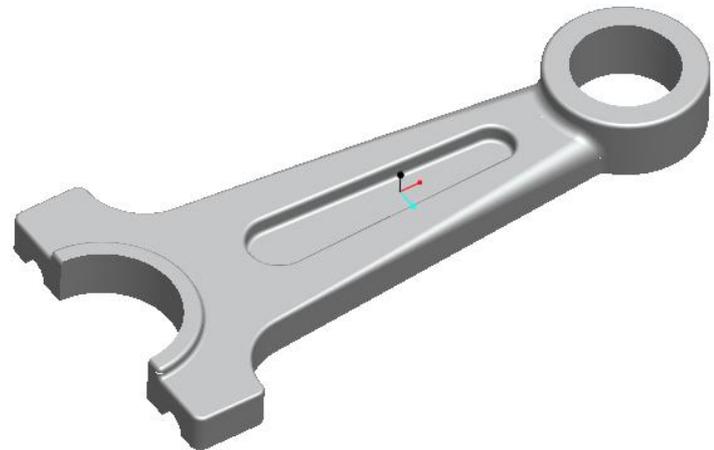
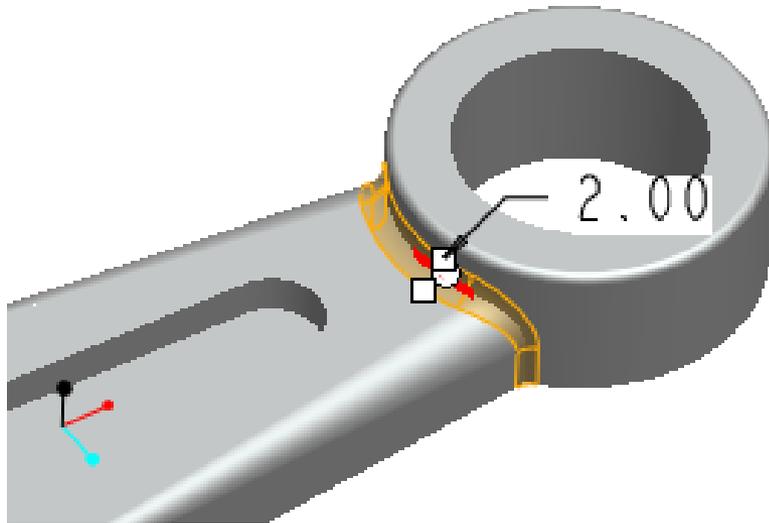
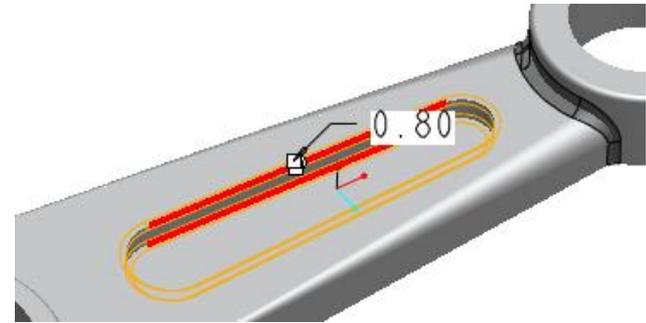
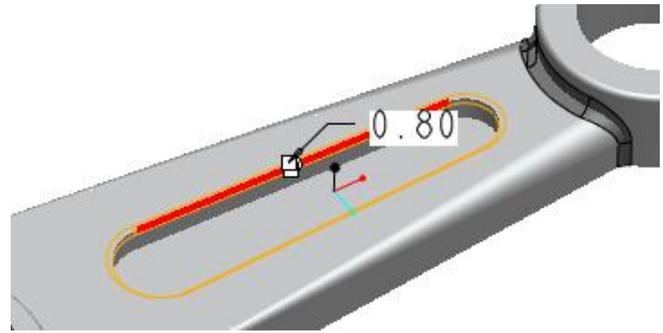


# 多半徑導圓角

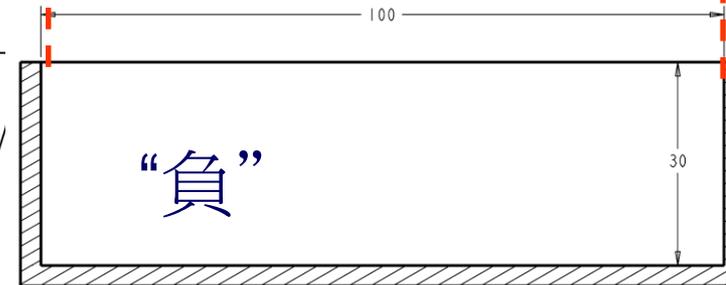
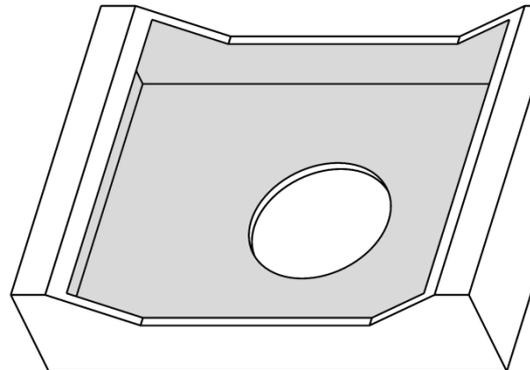
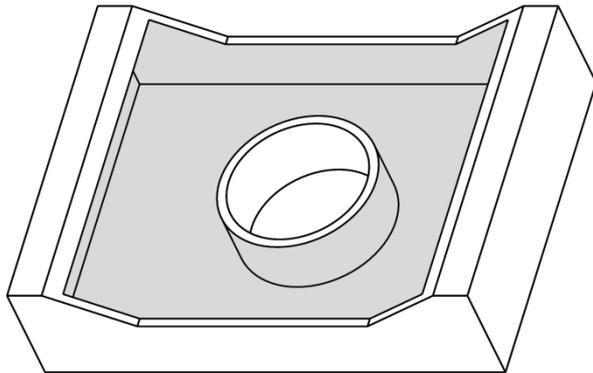
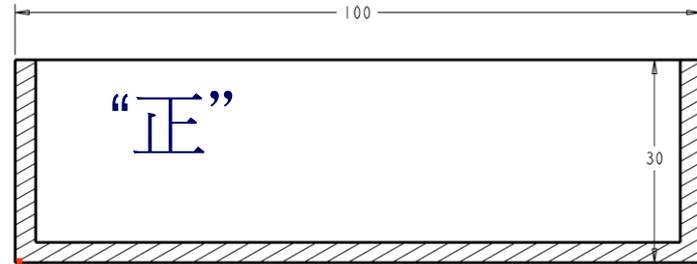
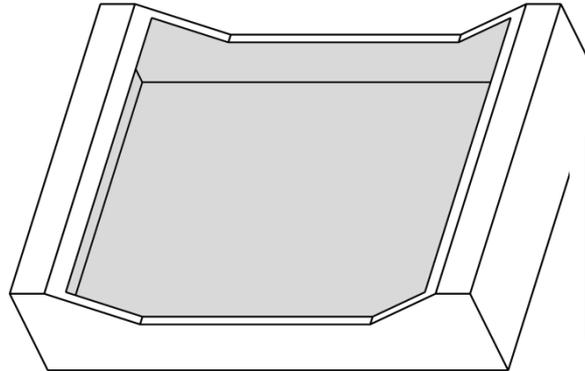
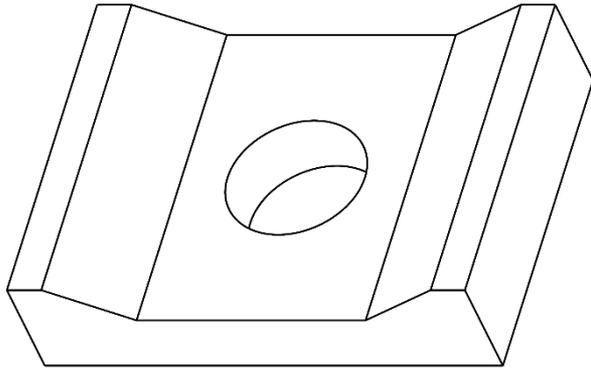
(前後端1.0/1.5及曲線比例0.4- $\rightarrow$ 4.0)



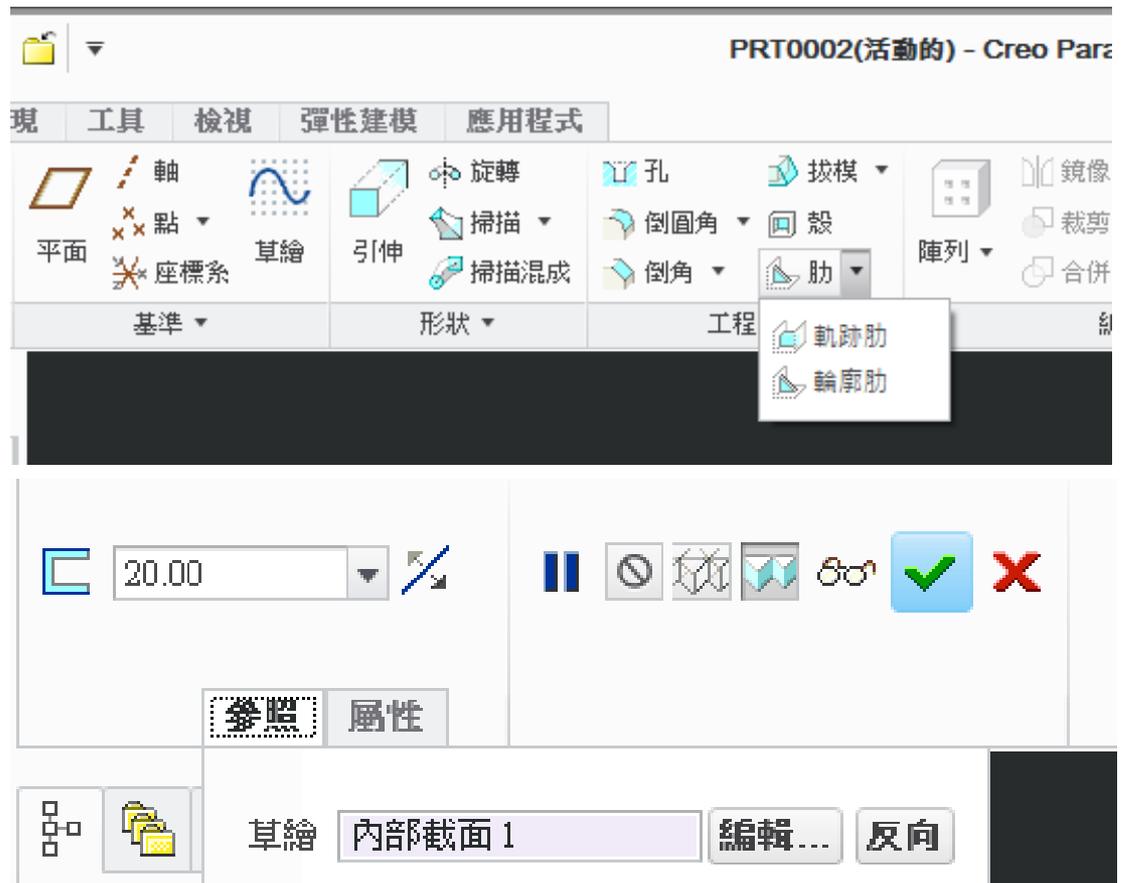
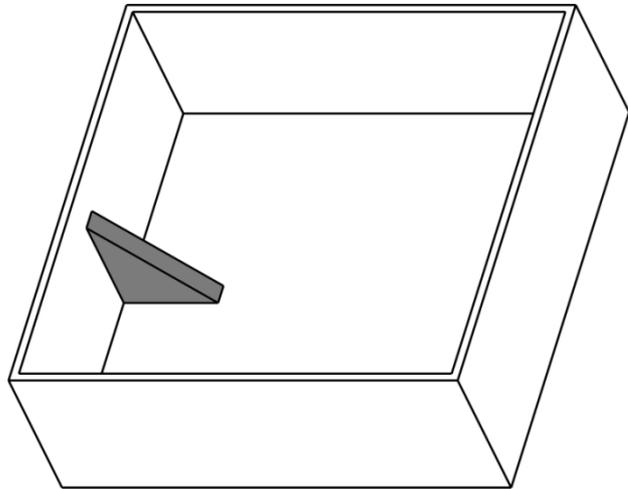
# 常數導圓角



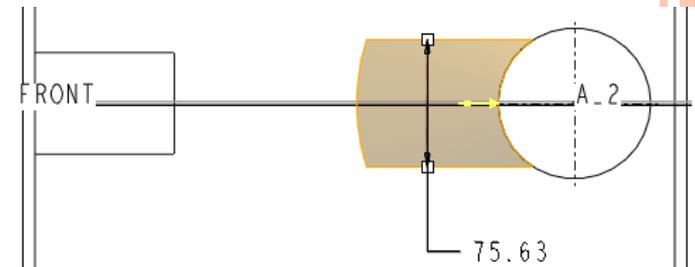
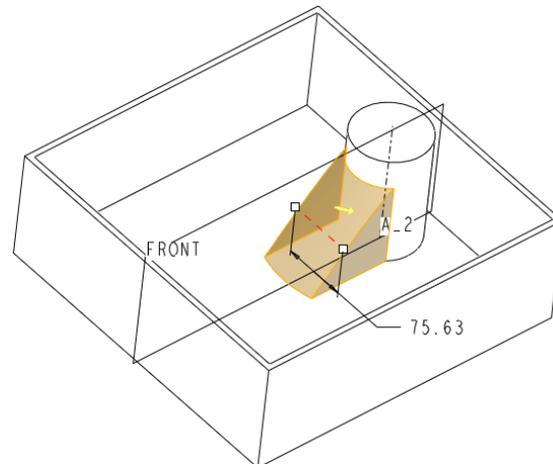
# 殼(SHELL)



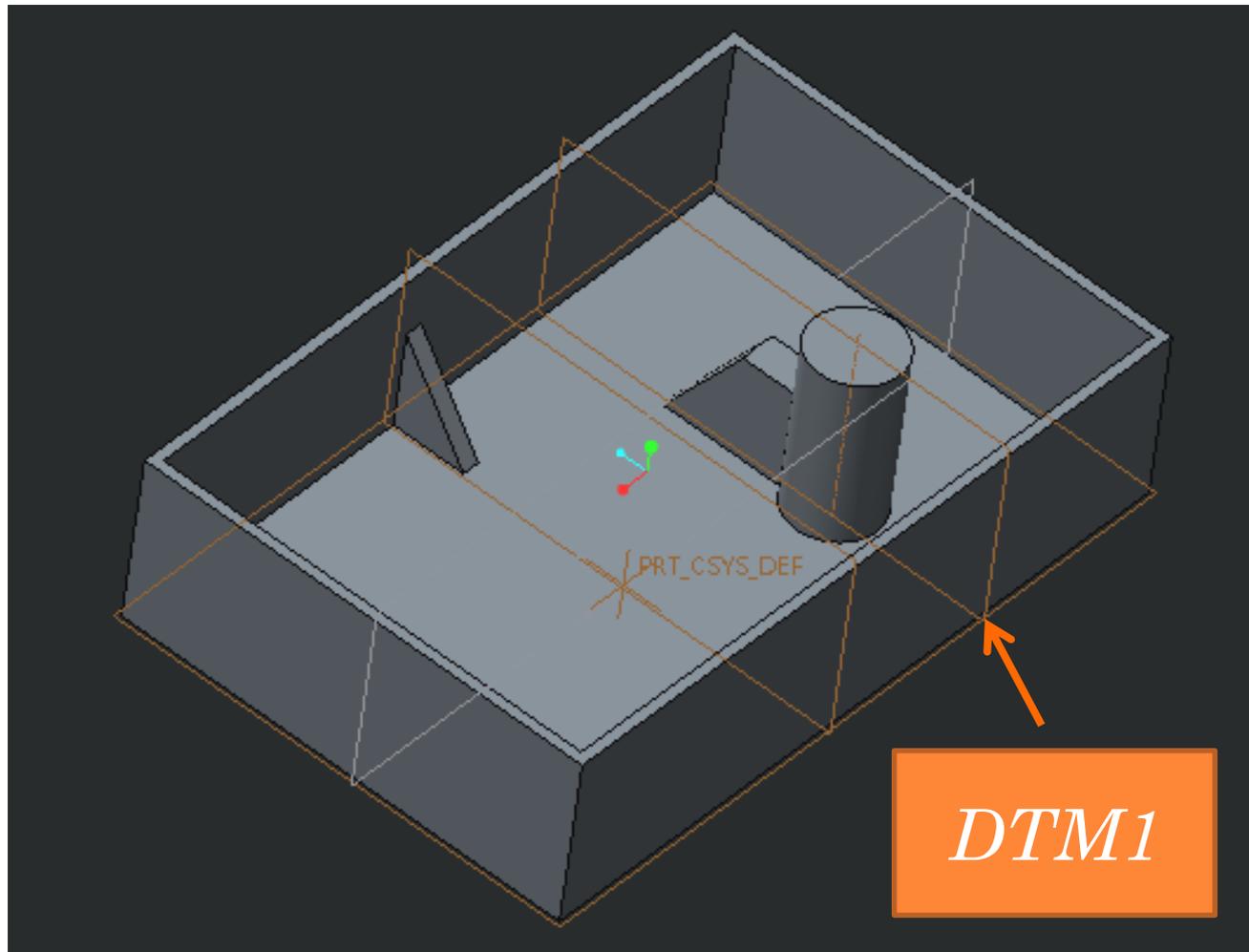
# 肋(RIB)



若肋接於「軸對稱」結構之面上，且繪圖面又通過此「軸對稱」結構之「基準軸」時，會產生「圓錐型」的肋面。

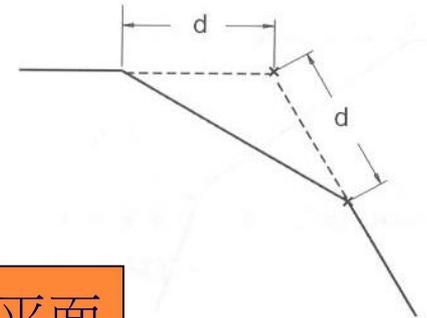
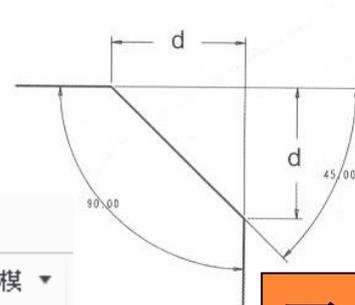
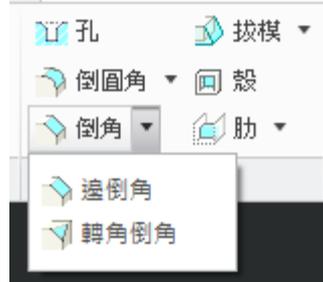
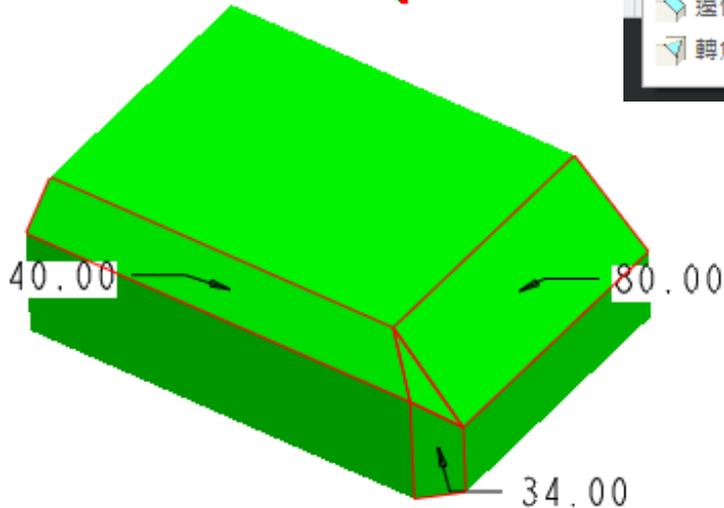
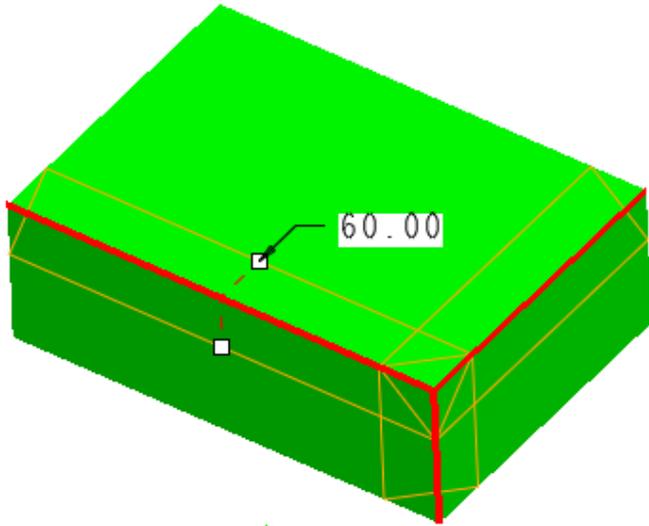


1. *CREATE* → *DTM* (穿過/平行)
2. 刪除舊參照，增加新參照
3. *RIB* (圓柱 & 邊)

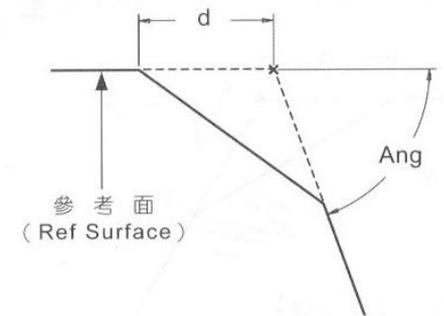
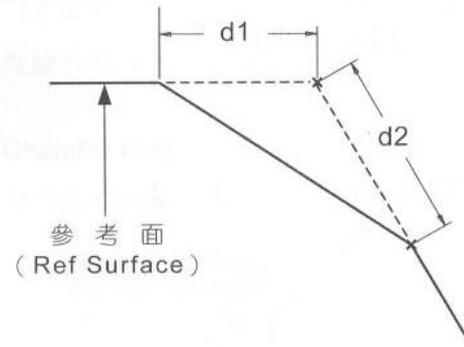


# 倒角(CHAMFER)

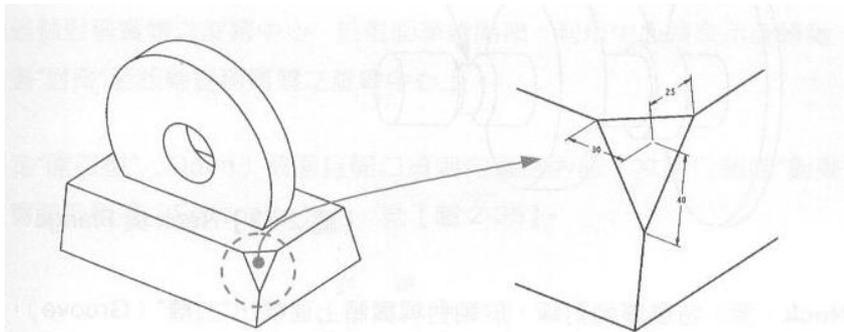
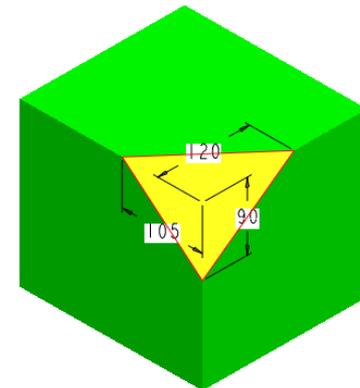
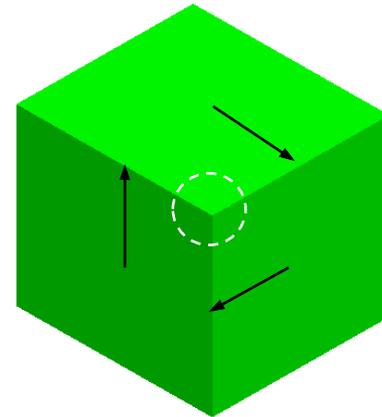
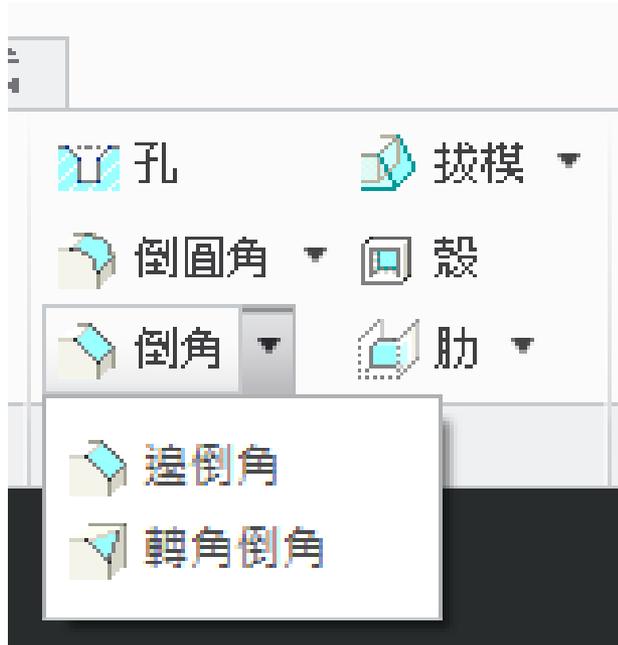
- Edge chamfer
  - $45^\circ d$ ,  $d \times d$



兩正交平面



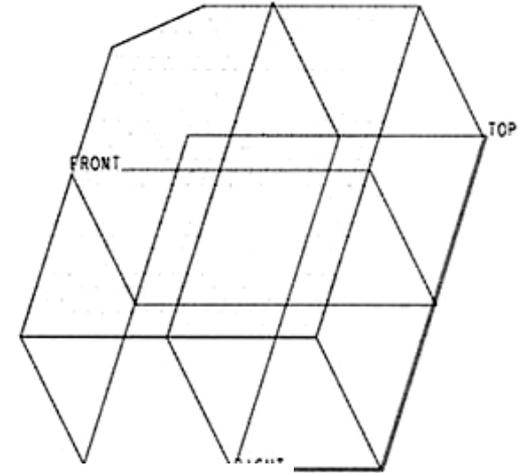
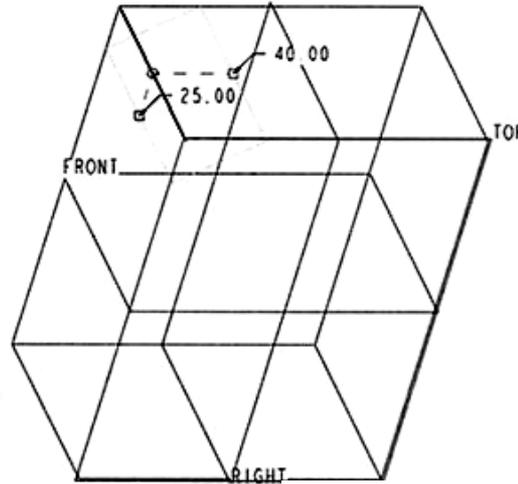
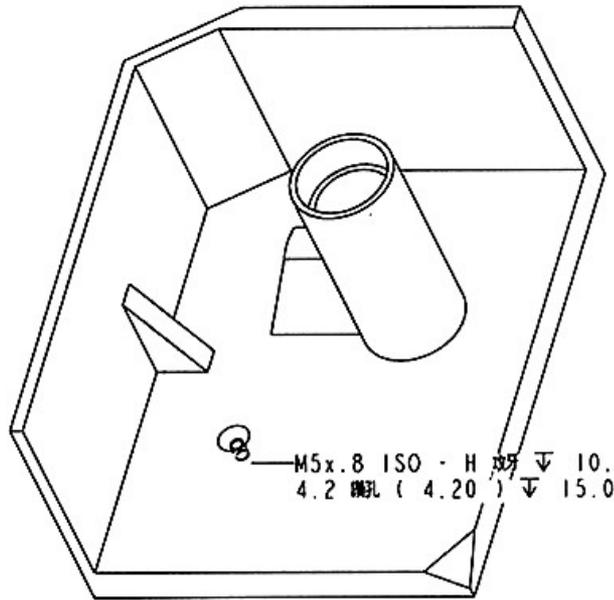
# 轉角倒角 (CORNER CHAMFER)



# 1.方塊建構

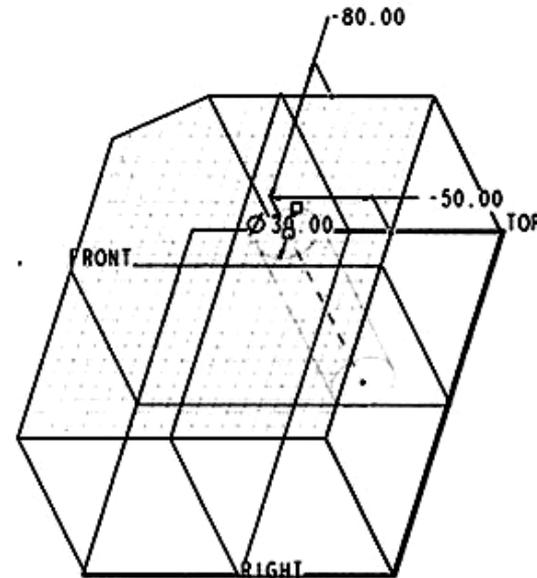
a.長200,寬150,深100

b. Chamfer D1D2



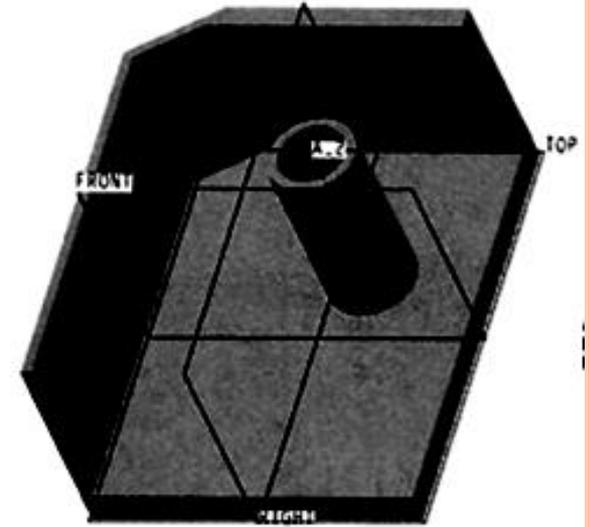
## 2.孔

a.邊80/50, 直徑30穿透



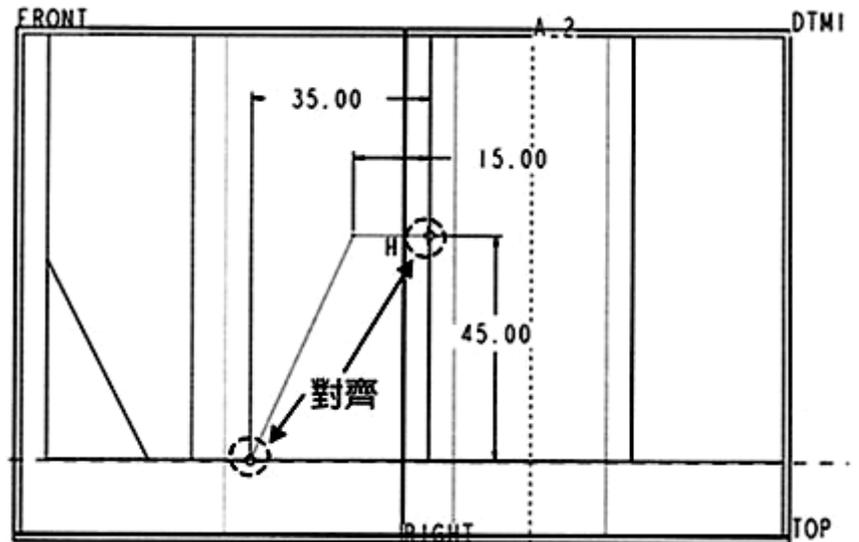
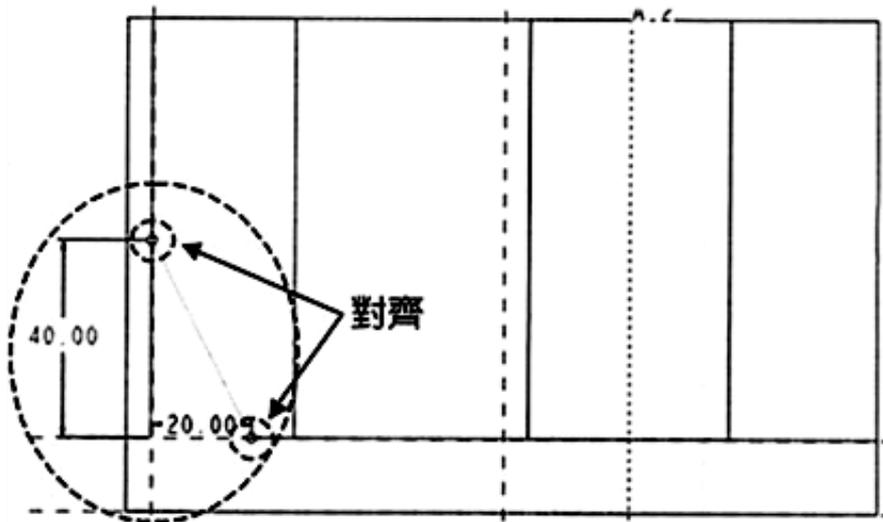
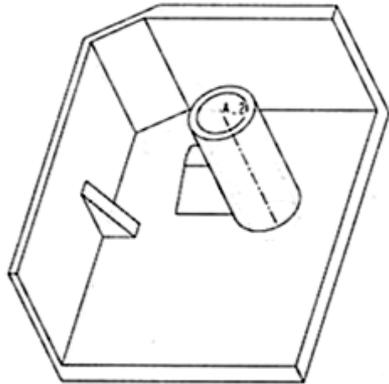
### 3. Shell

a.厚5,底15,後板10

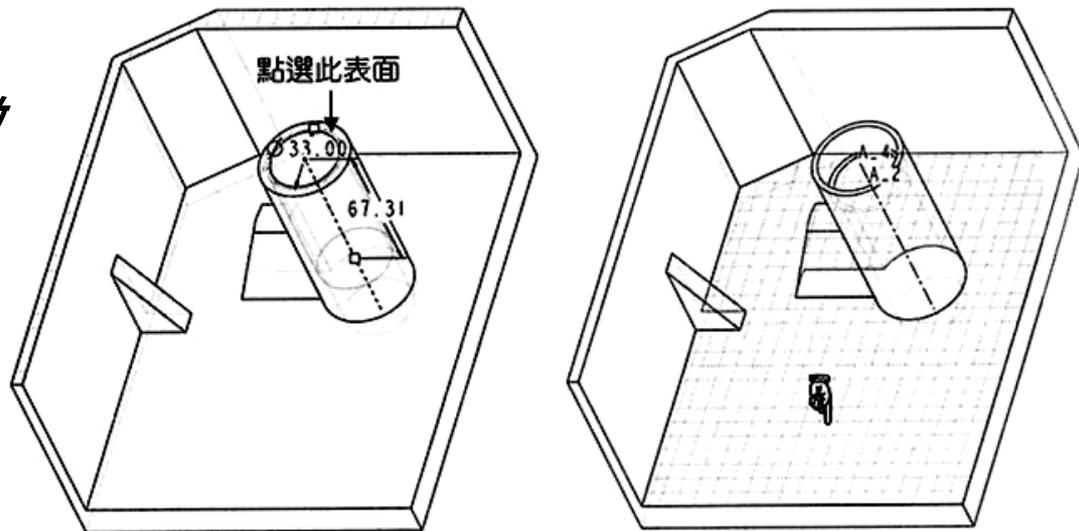


### 4. Rib

a.10/15



5. 同軸 (Coaxial) 孔特徵  
a. 直徑35深度15



6. Conner Chamfer  
a. 以10/15/20建立

