

CREO ELEMENT-4

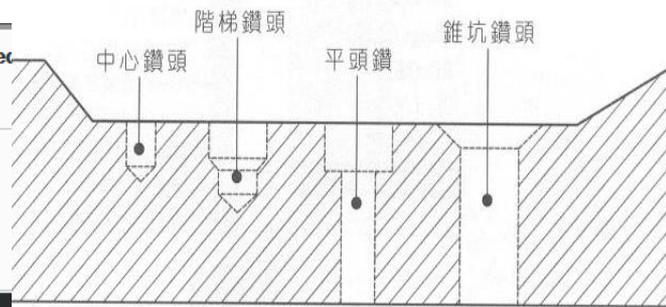
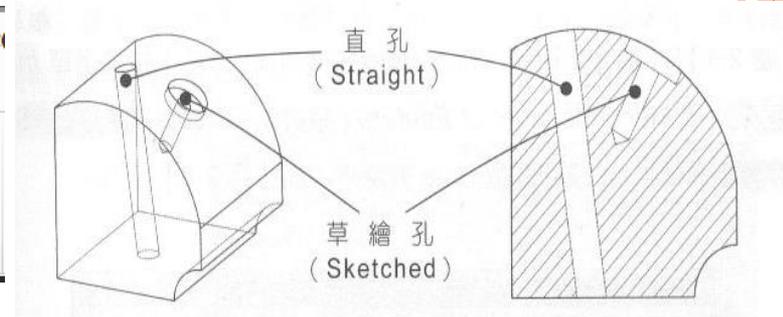
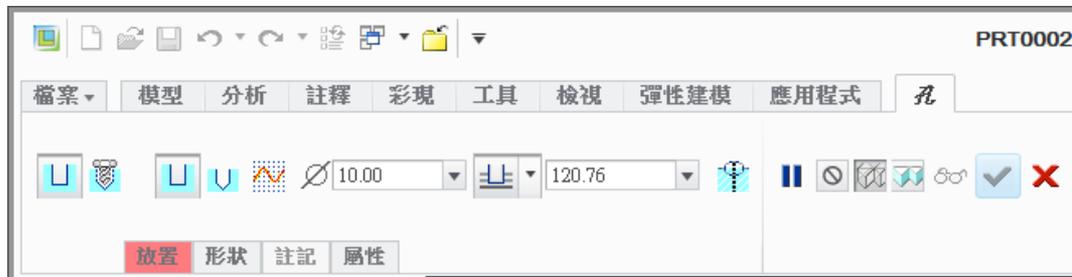
工程特徵

(HOLE/ROUND/CHAMFER/SHELL/RIB)

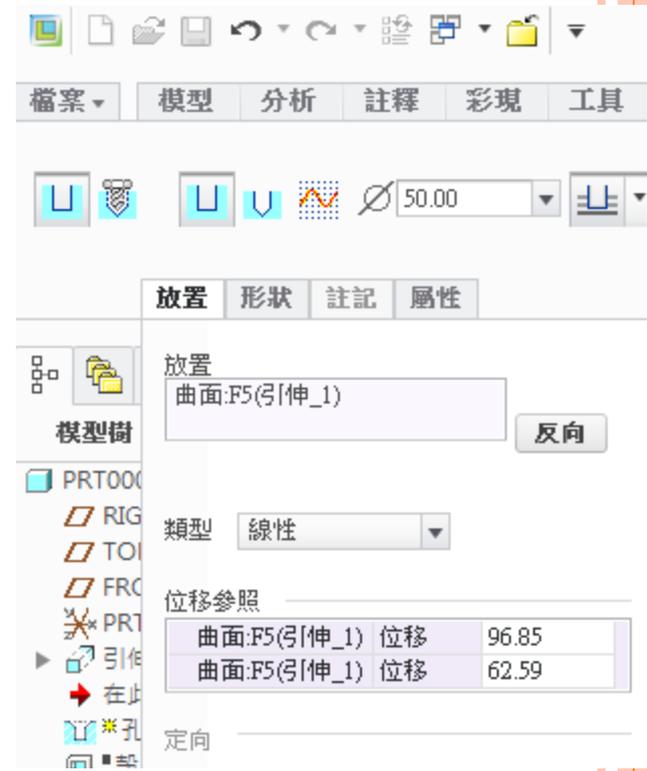
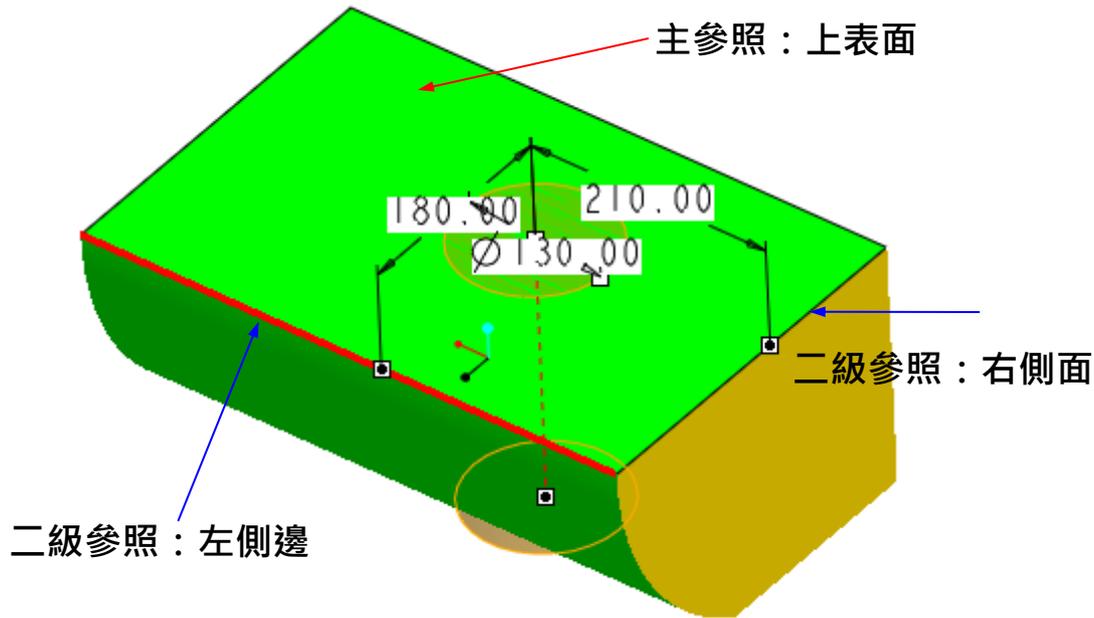
國立陽明大學 生物醫學工程系
林峻立 教授

孔(Hole)-

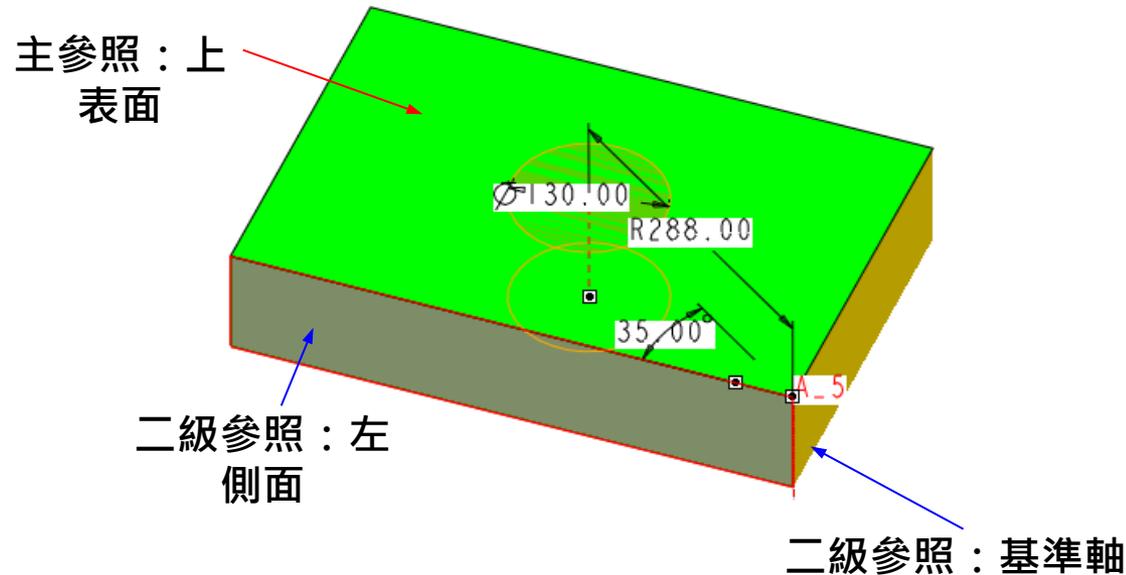
- 直孔->單純的、草繪
- 標準孔



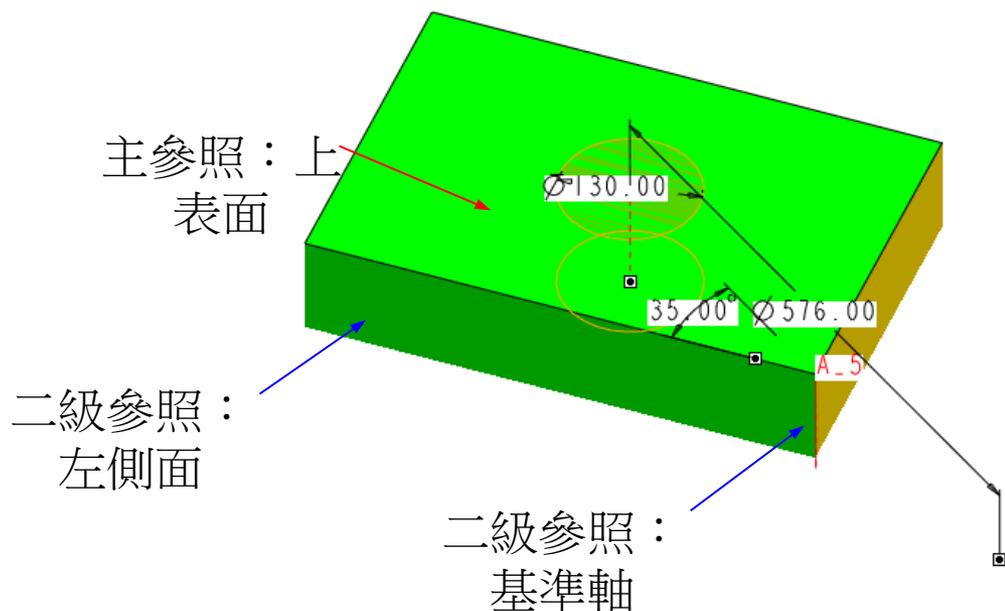
○ 「線性」 (Linear)



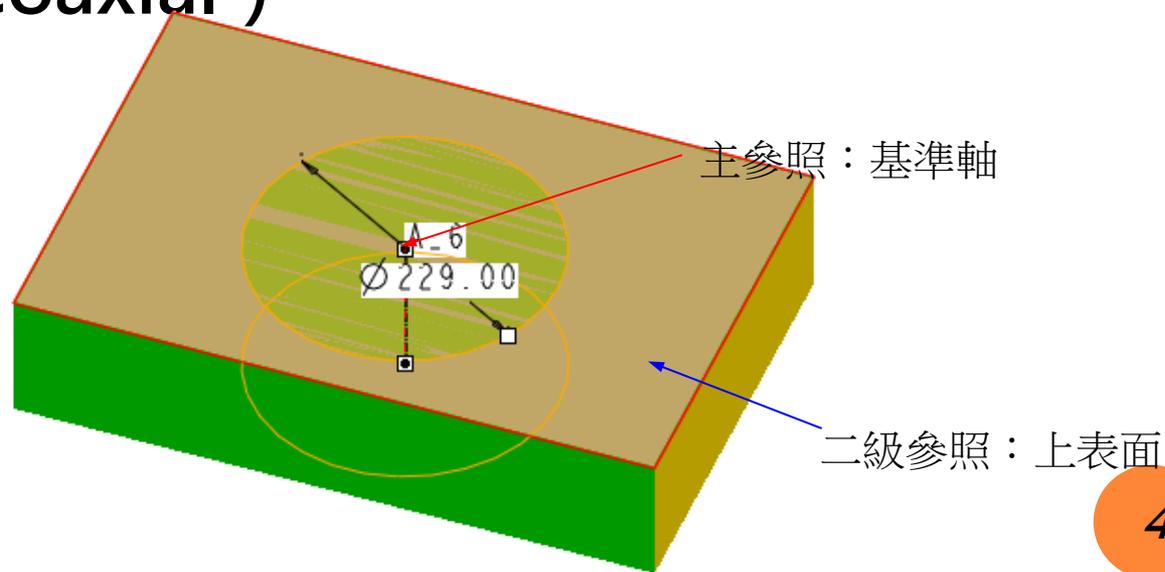
○ 「徑向」 (Radial)



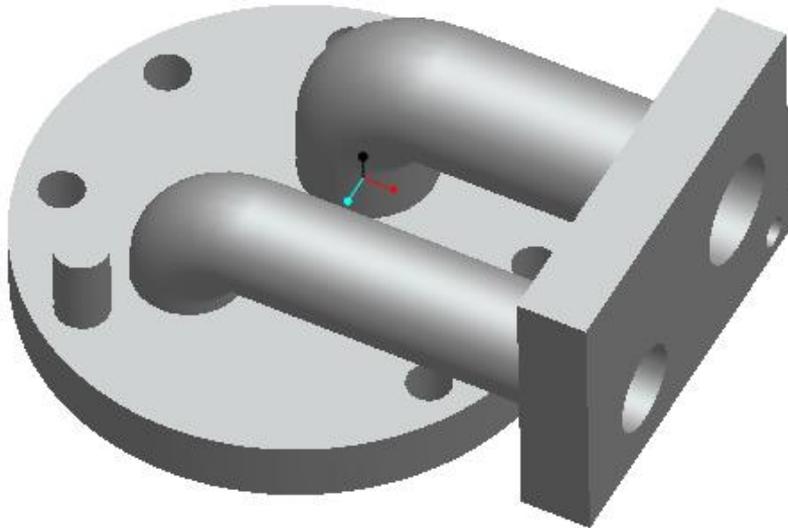
○ 「直徑」 (Diameter)



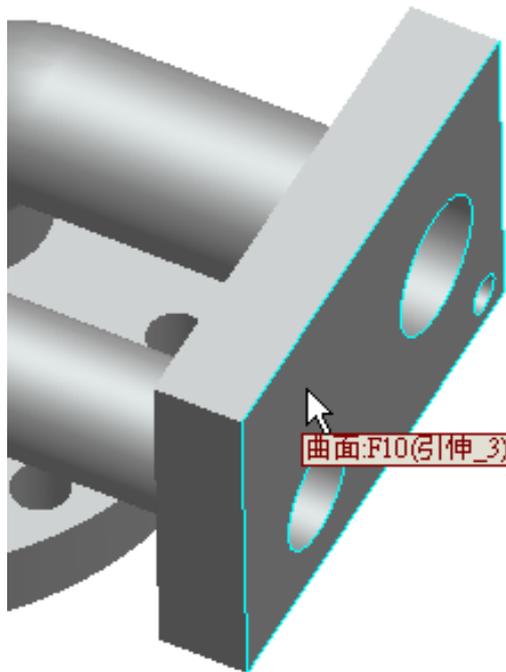
○ 「同軸」 (Coaxial)



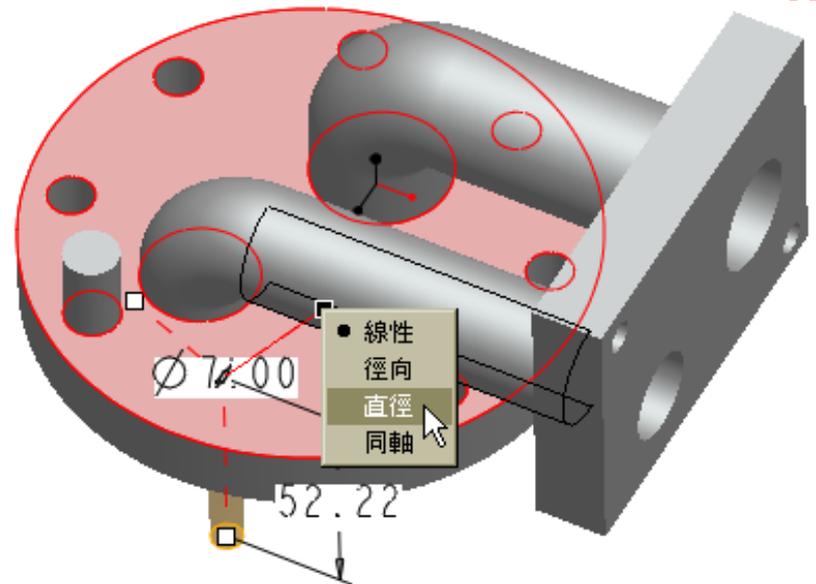
Ex: 4-1



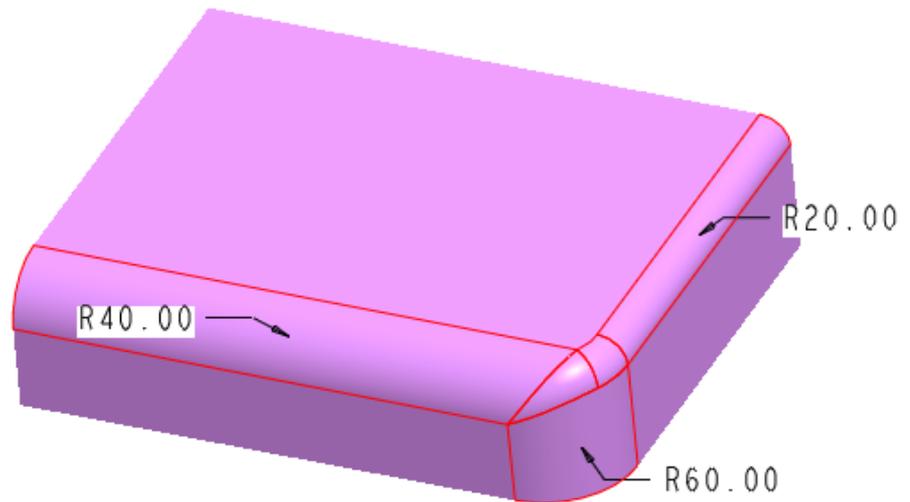
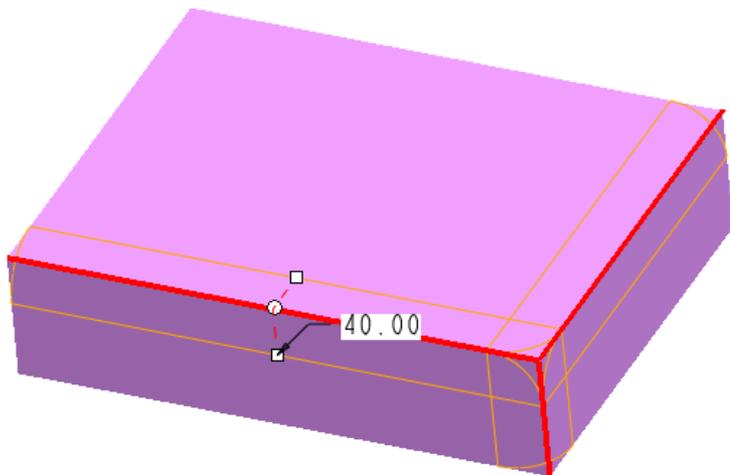
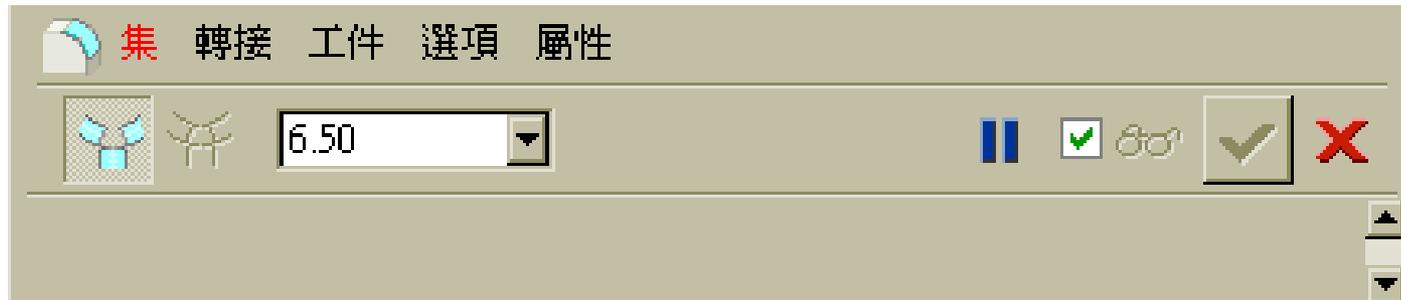
2. 徑向
直徑距離100, 角度80
直徑10 深度貫通



1. 線性
雙邊距離8
直徑7 深度6



倒圓角(ROUND)



設定1 圓形
 設定2 圓形
 設定3 0.00
 *新集合 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...

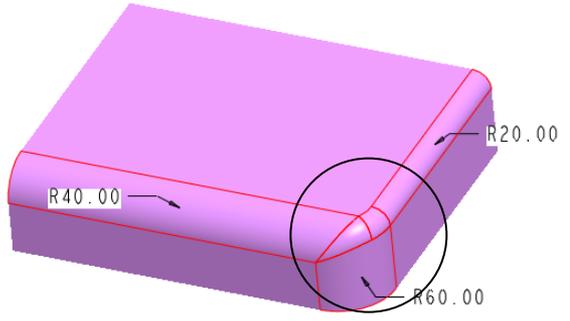
| # | 半徑 |
|---|-------|
| 1 | 40.00 |

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

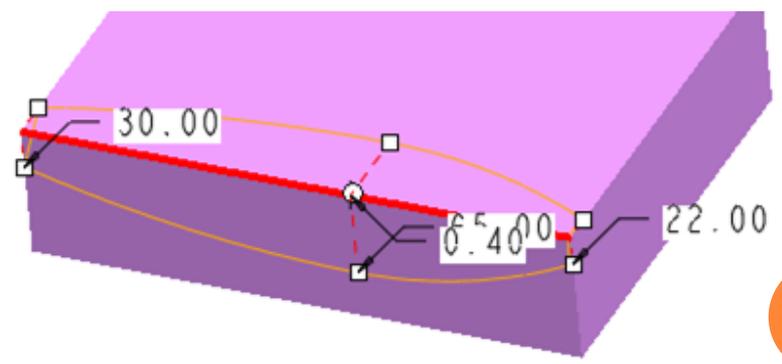
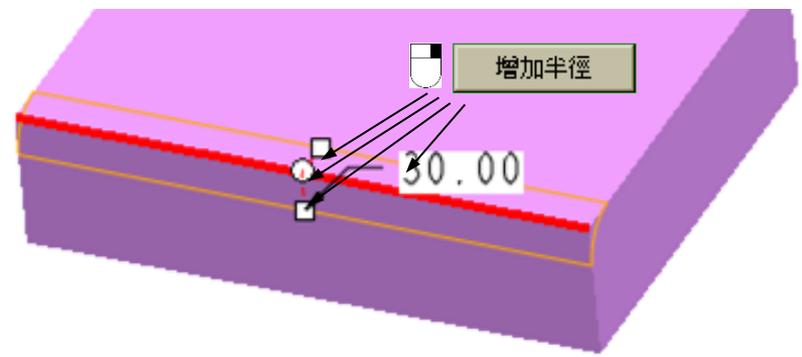
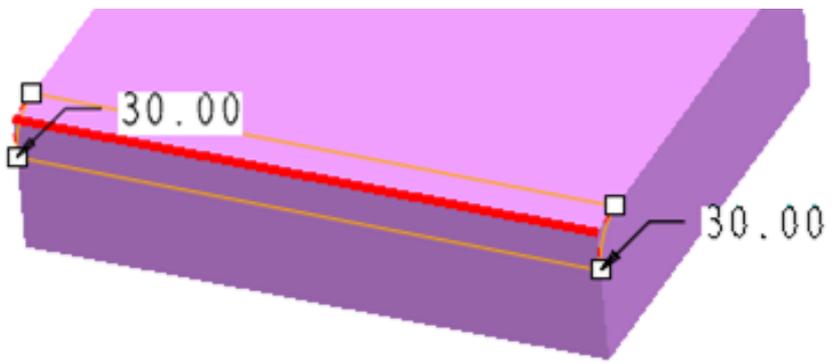
預設(僅限倒圓角 2)
 預設(僅限倒圓角 2)
 相交
 轉角球面
 僅限倒圓角1

全部

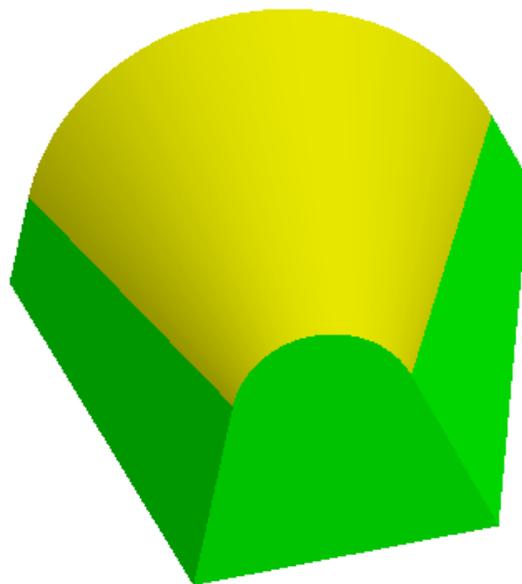
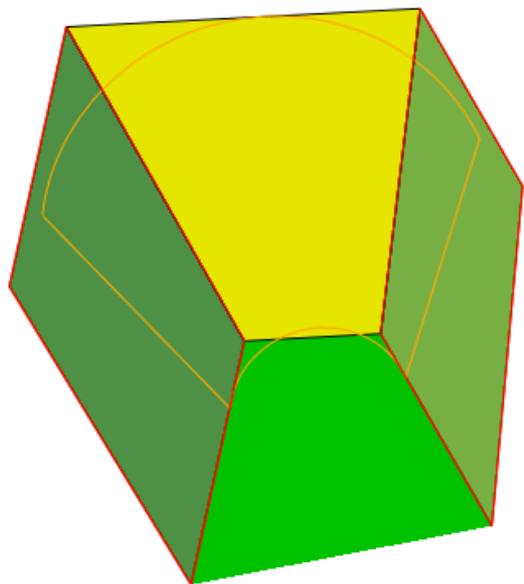
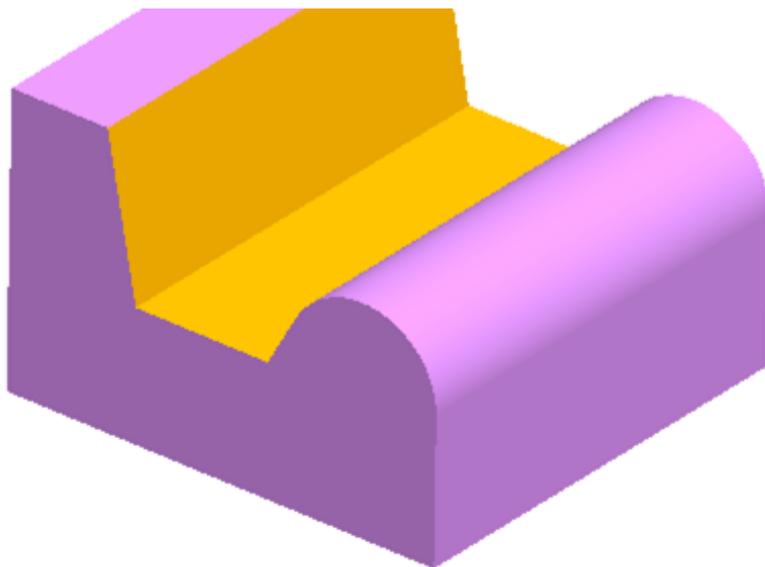
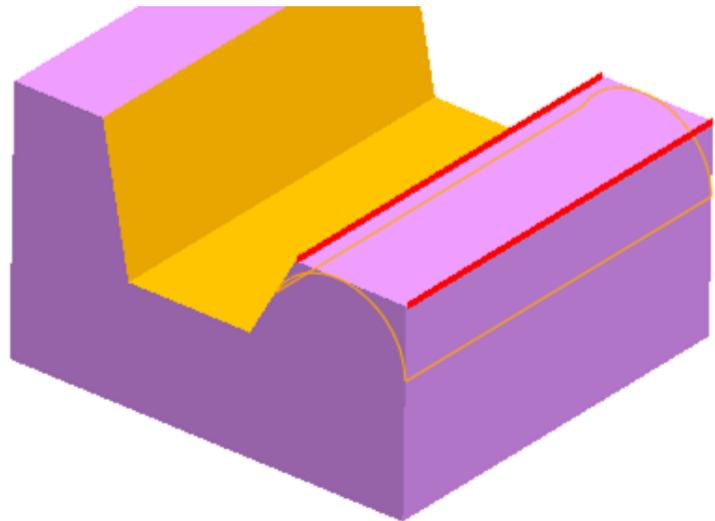
集 轉接 工件 選項 屬性

6.50

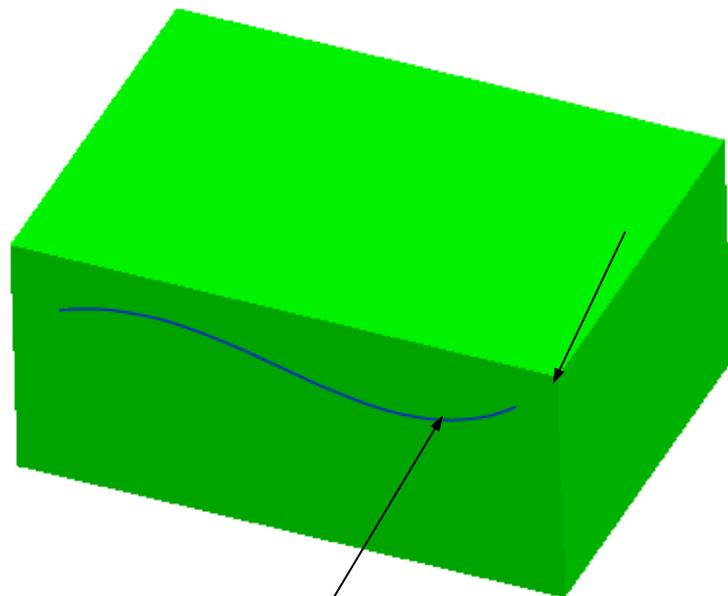
增加半徑



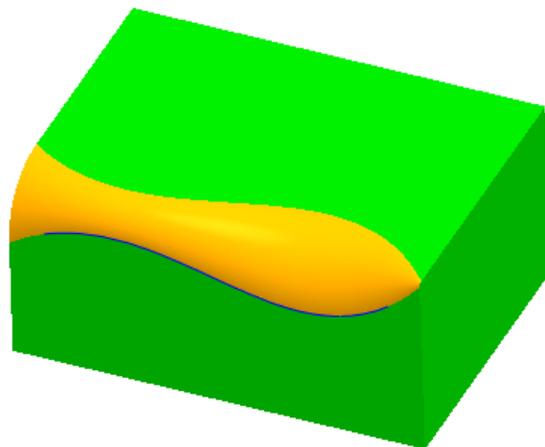
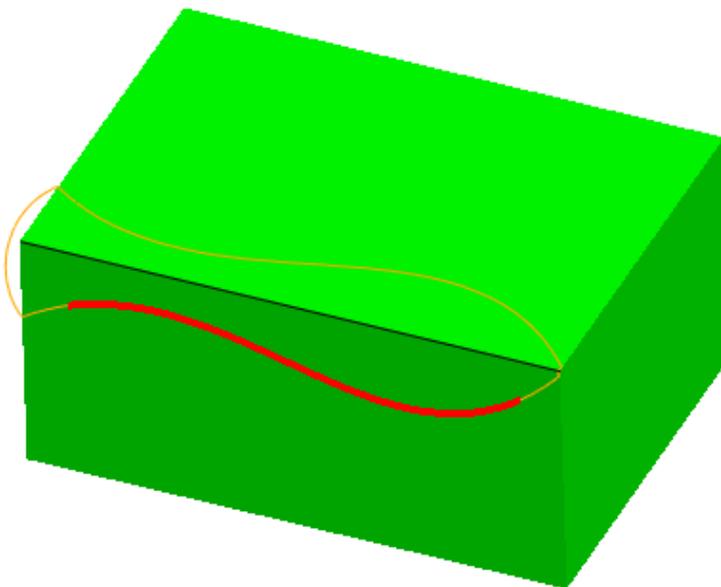
完全倒圓角(FULL ROUND)



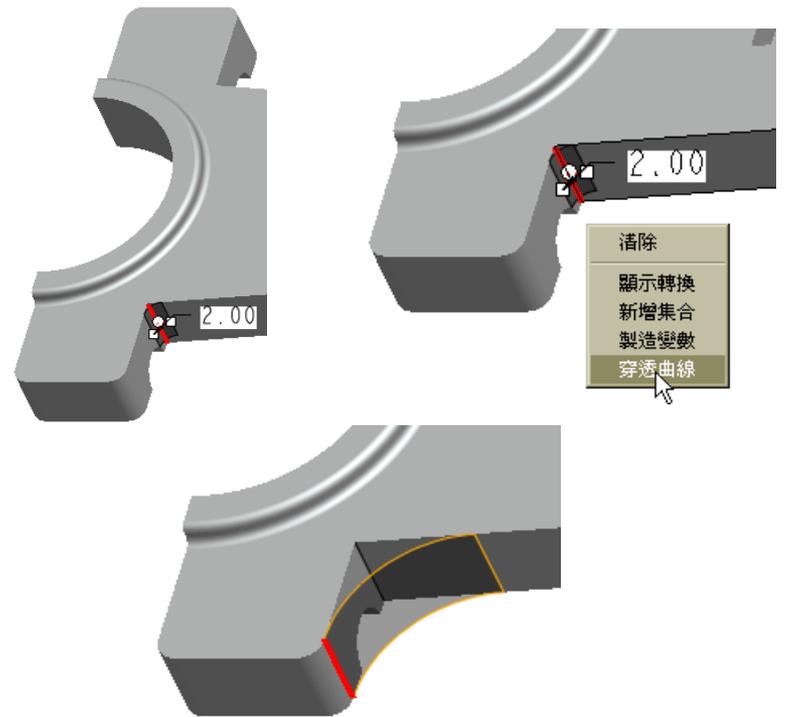
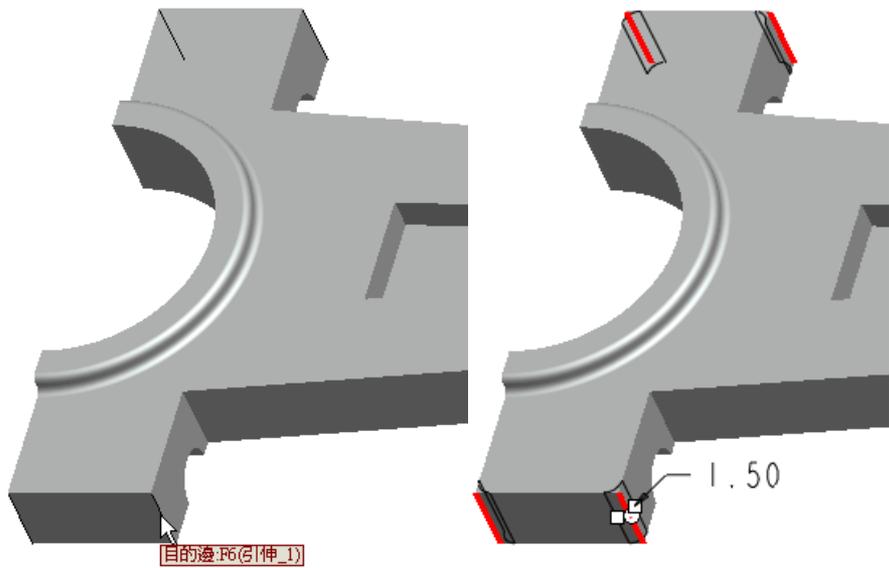
穿透曲線倒圓角



驅動曲線



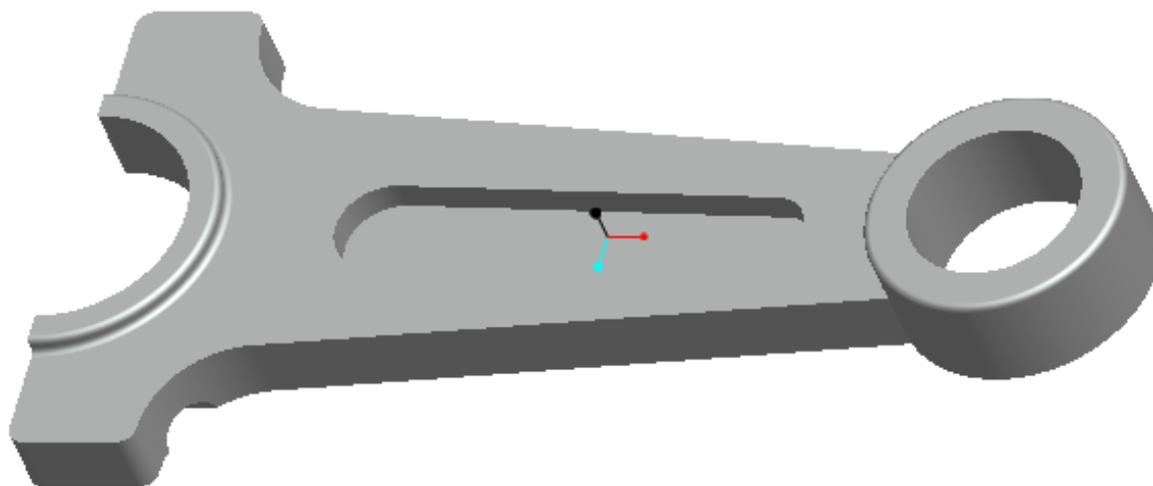
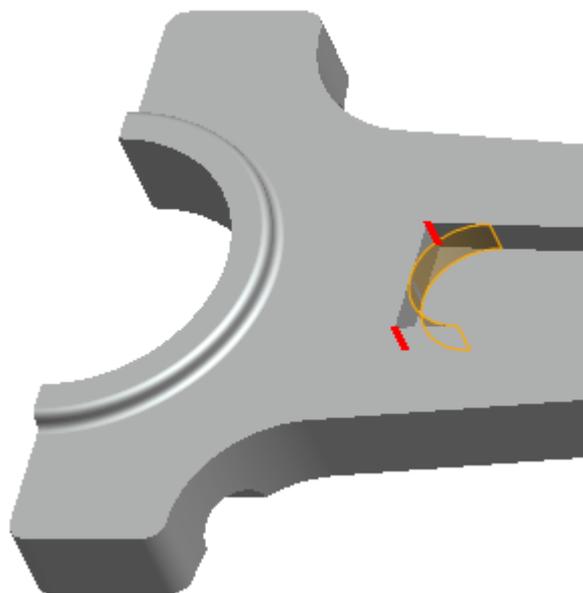
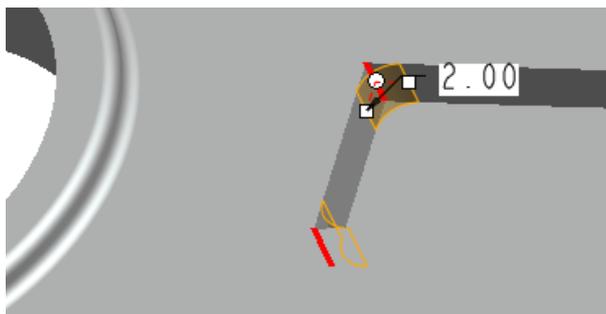
Ex: 4-2



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

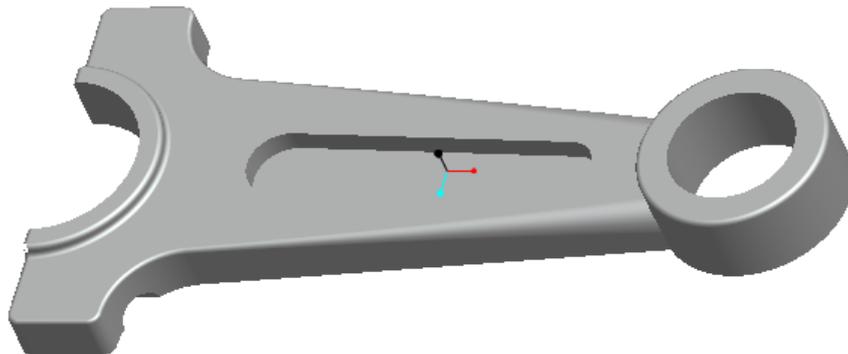
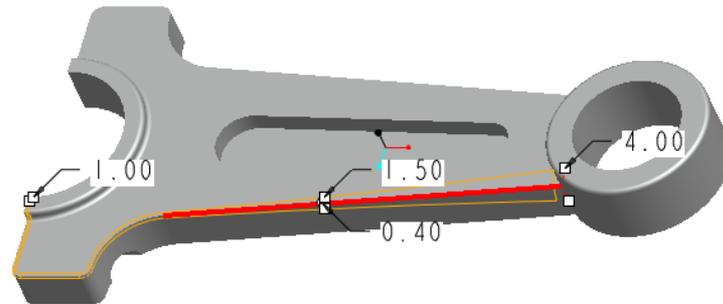
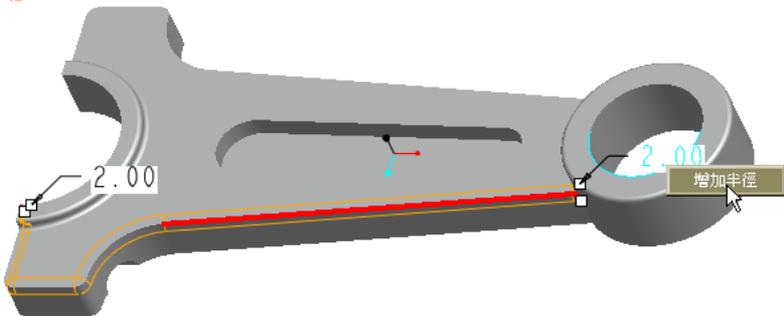
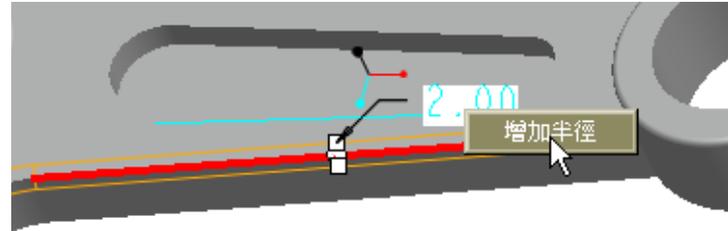
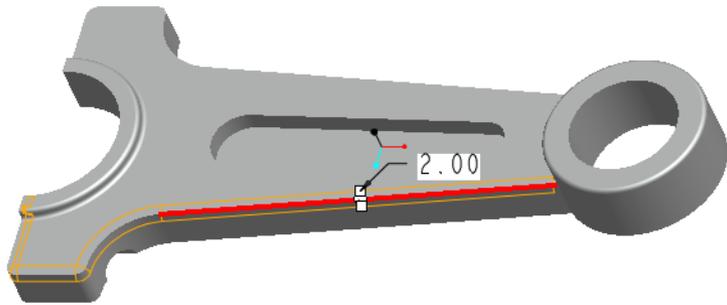
2.
 - a. 點一邊
 - b. Through curve (穿透曲線)

完全導圓角

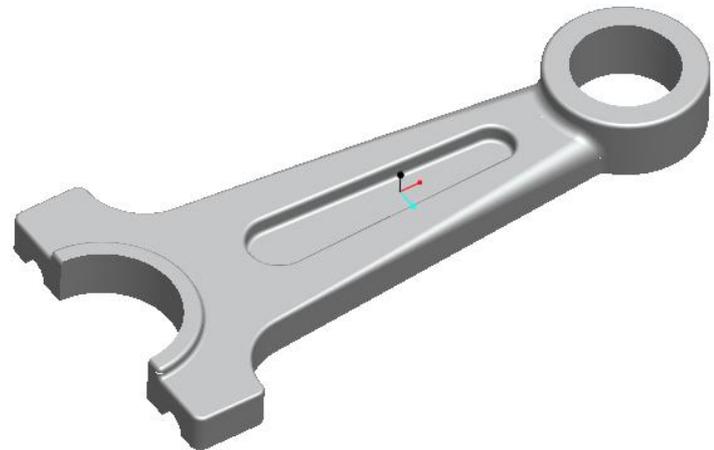
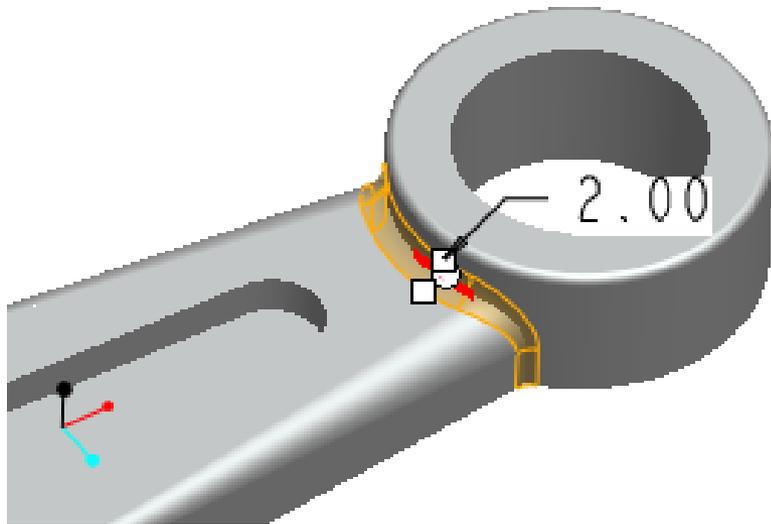
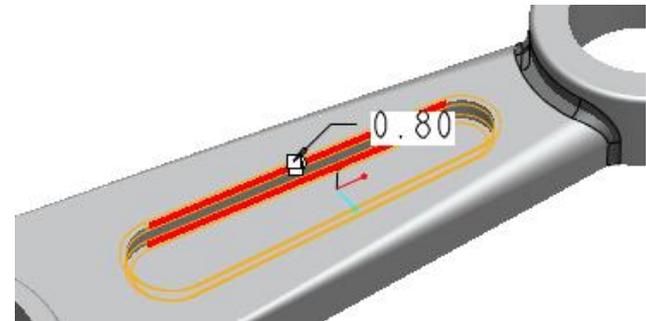
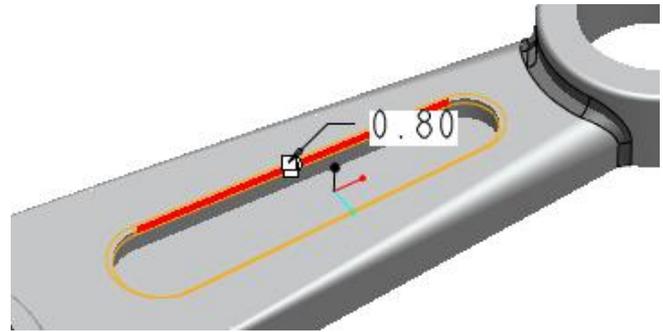


多半徑導圓角

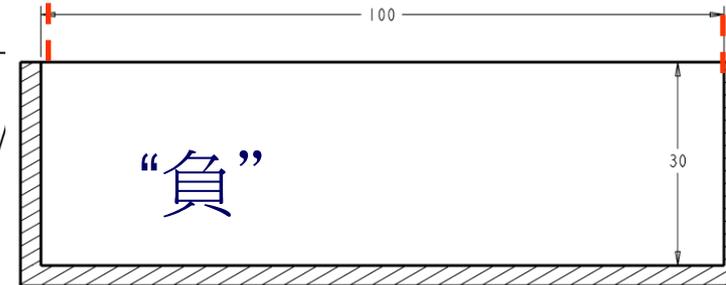
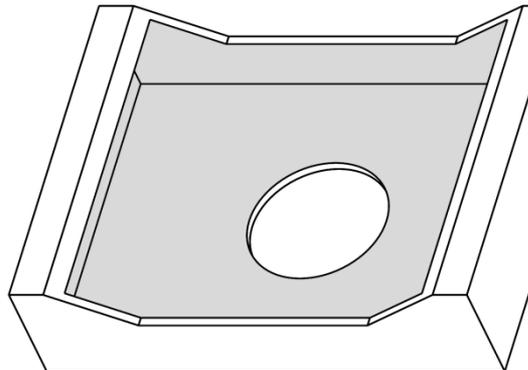
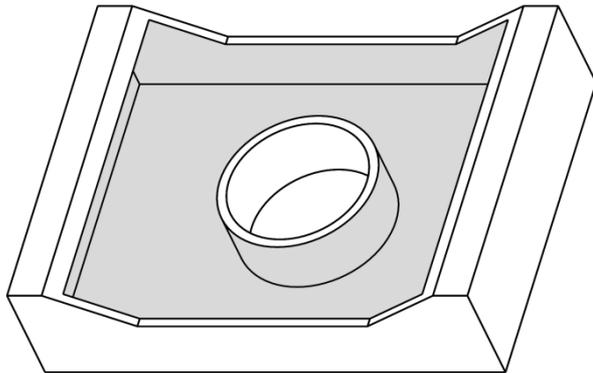
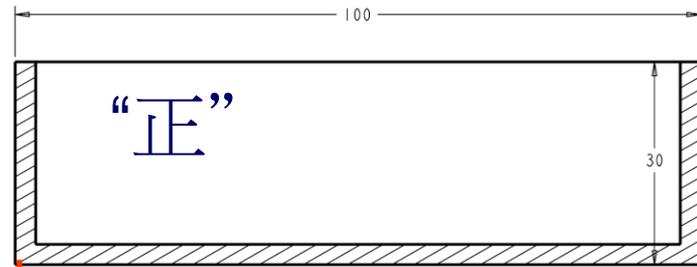
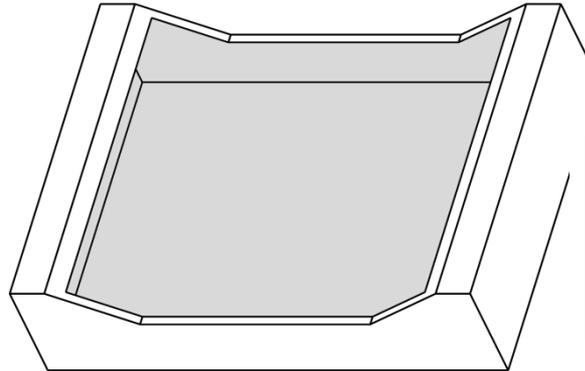
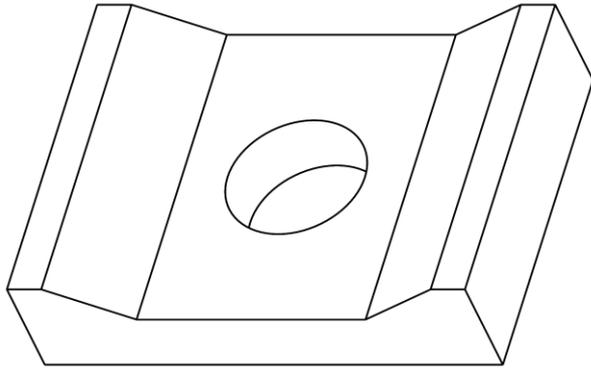
(前後端1.0/1.5及曲線比例0.4- \rightarrow 4.0)



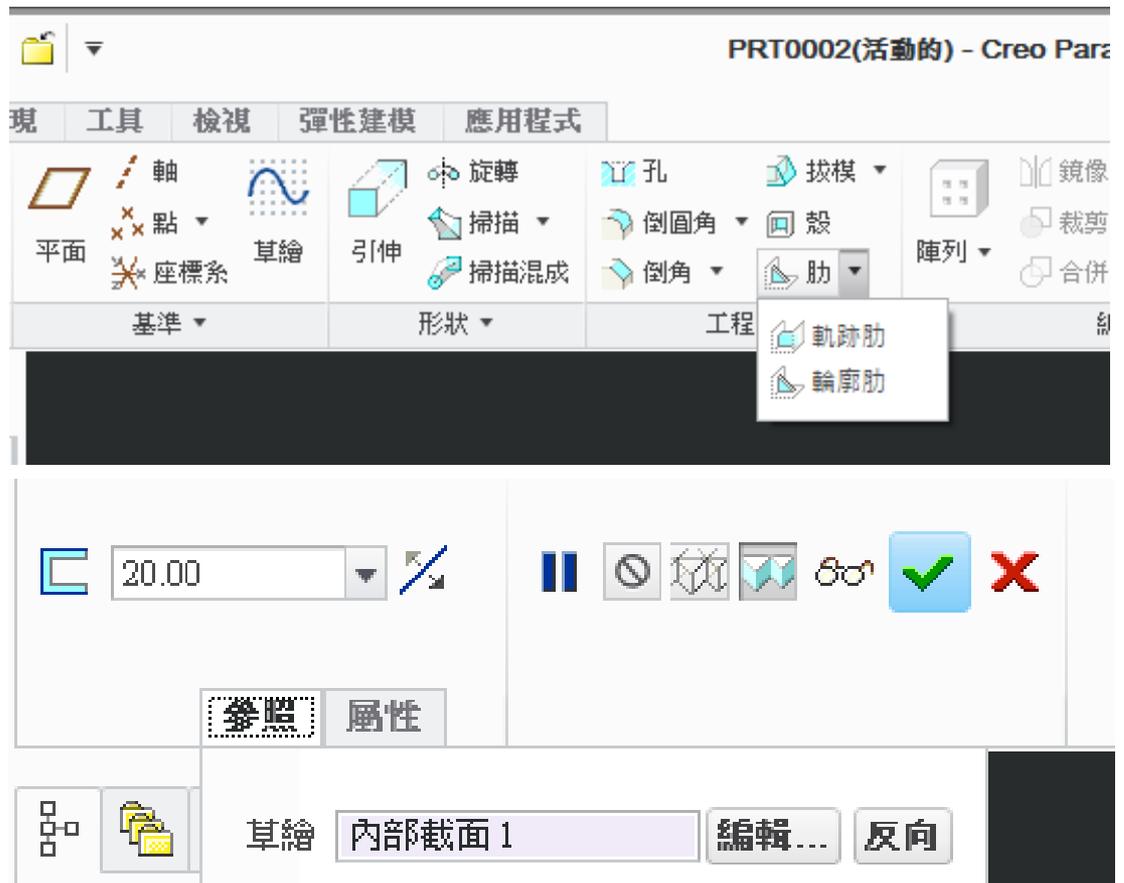
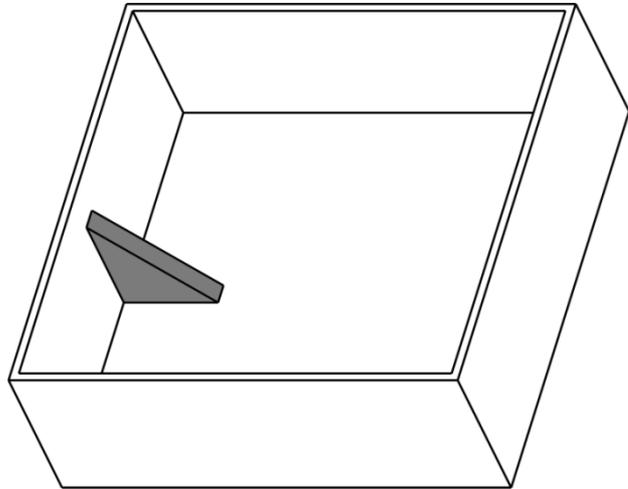
常數導圓角



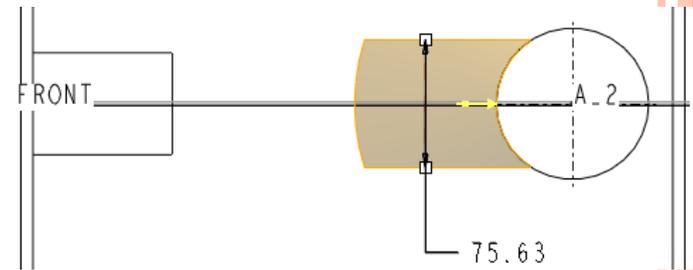
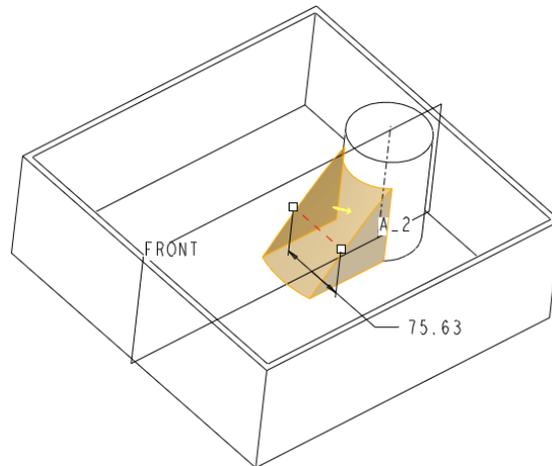
殼(SHELL)



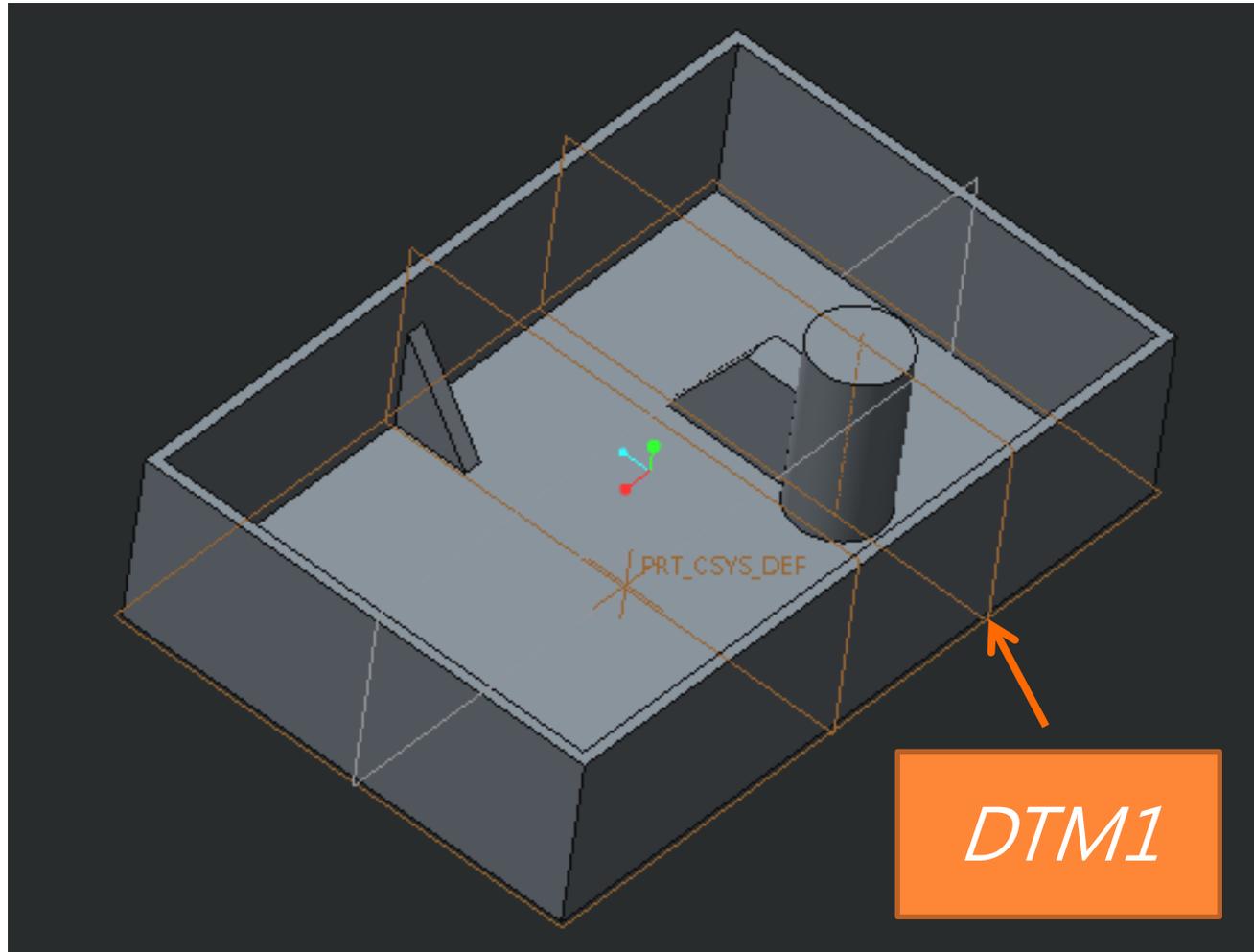
肋(RIB)



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。

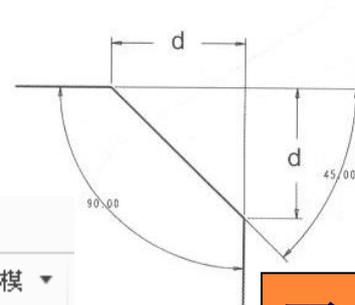
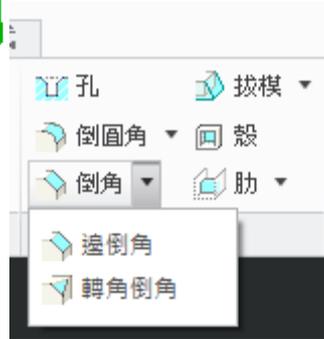
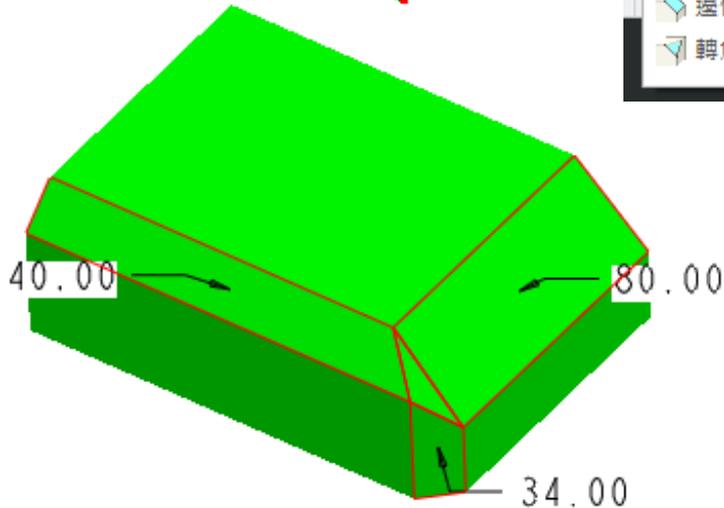
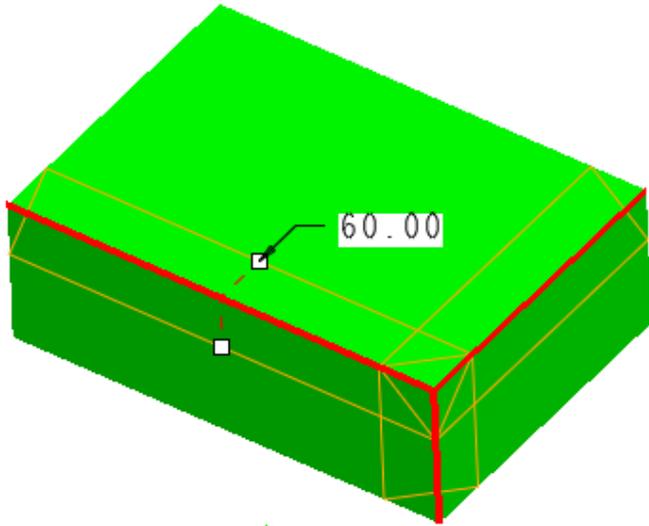


1. *CREATE* → *DTM* (穿過/平行)
2. 刪除舊參照，增加新參照
3. *RIB* (圓柱 & 邊)

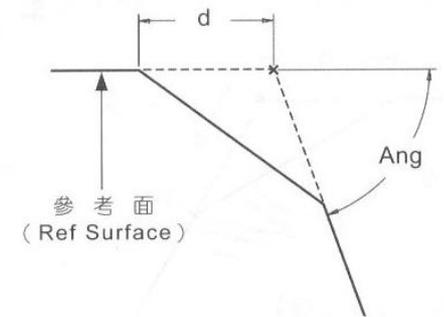
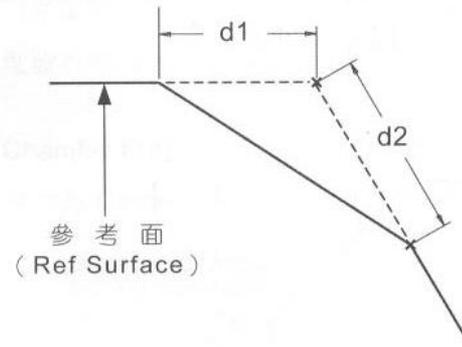
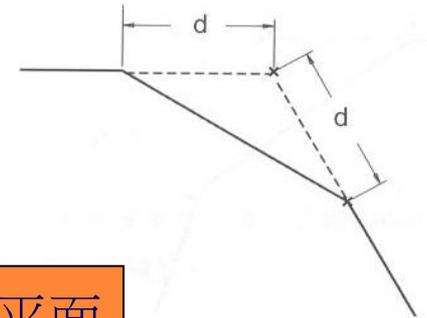


倒角(CHAMFER)

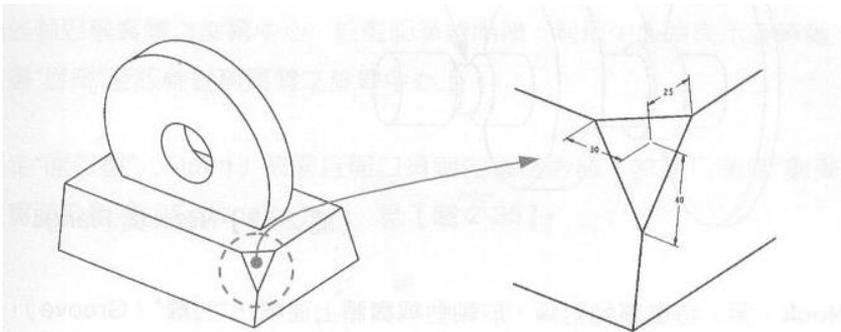
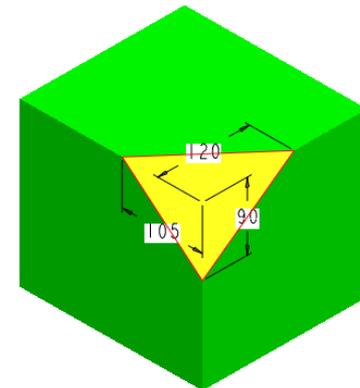
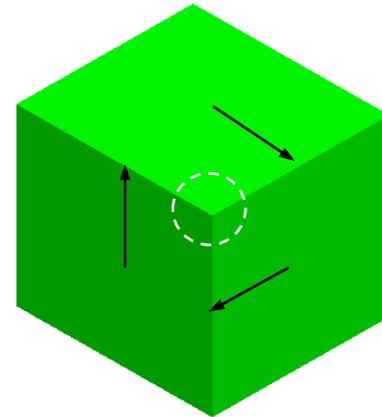
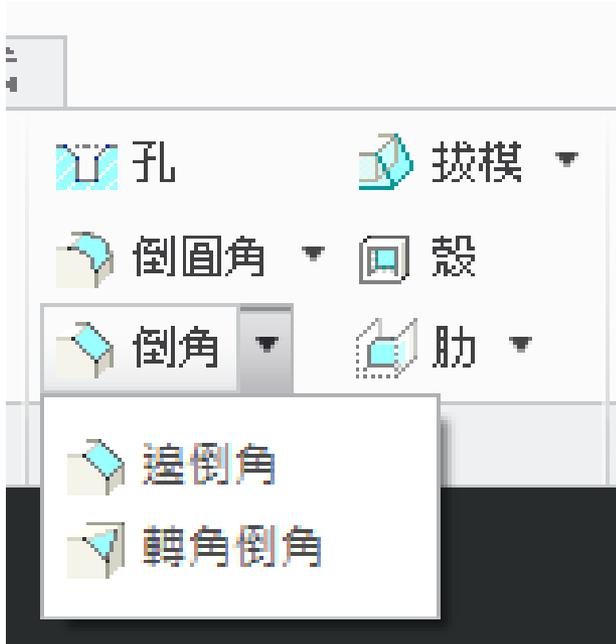
- Edge chamfer
 - $45^\circ d$, $d \times d$



兩正交平面



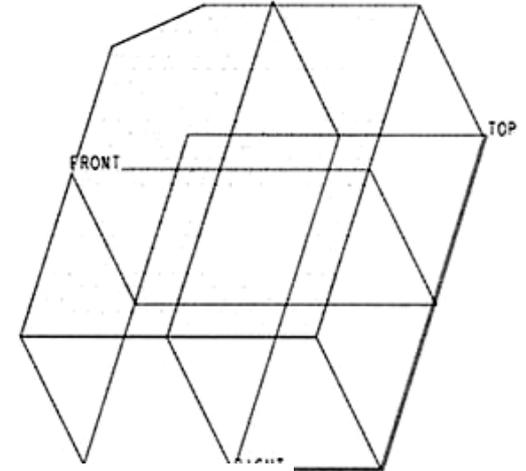
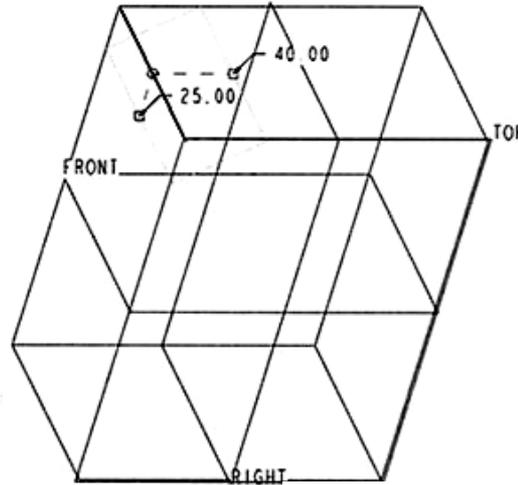
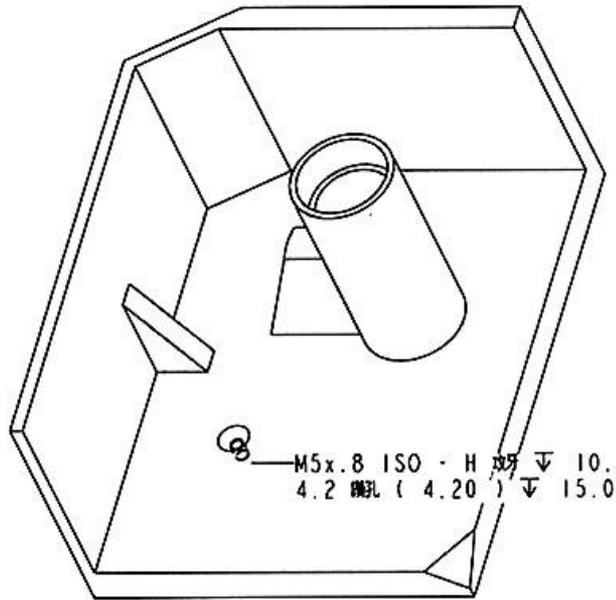
轉角倒角 (CORNER CHAMFER)



1.方塊建構

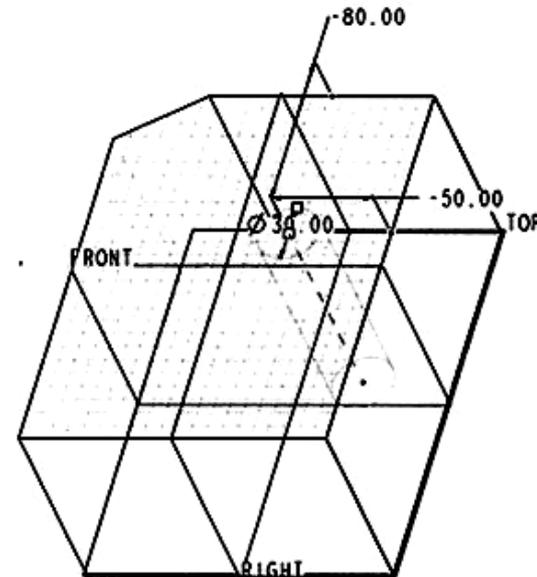
a.長200,寬150,深100

b. Chamfer D1D2 (40*25)



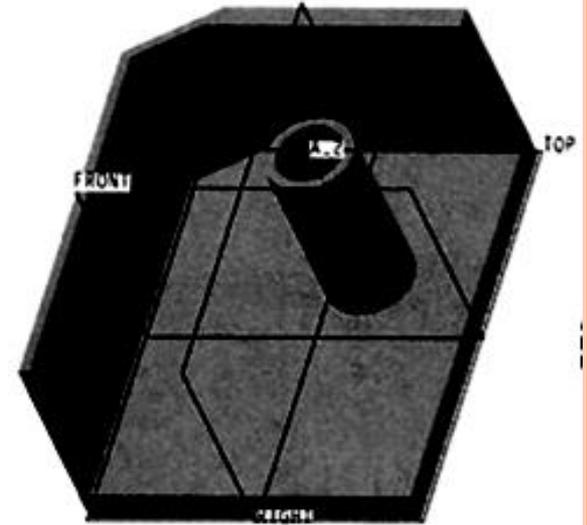
2.孔

a.邊80/50, 直徑30穿透



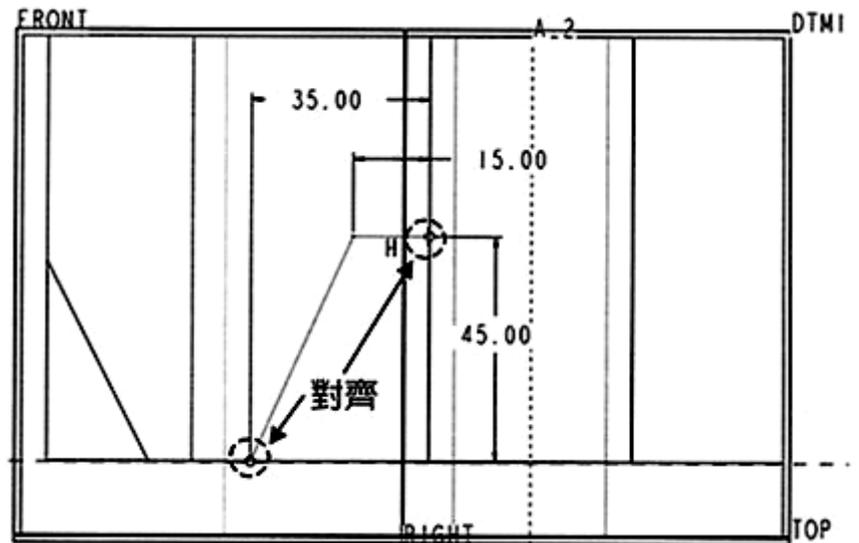
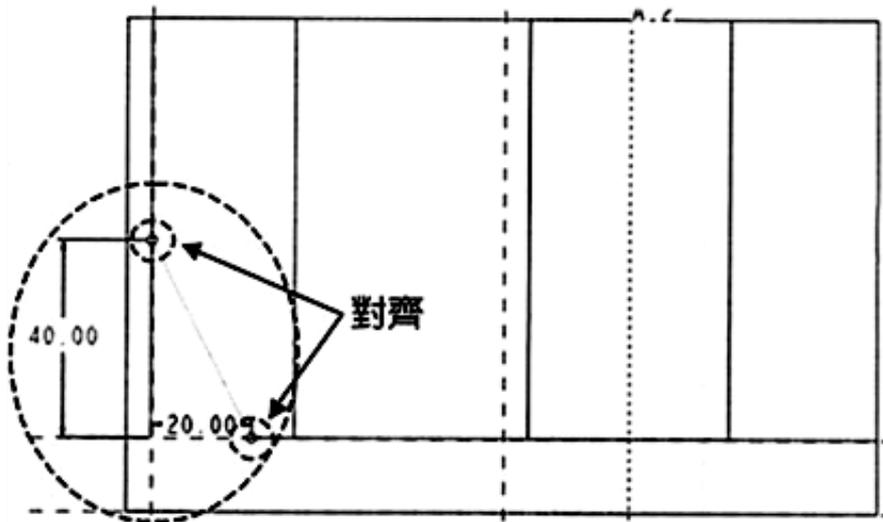
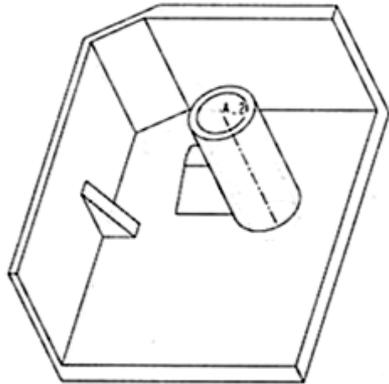
3. Shell

a.厚5,底15,後板10

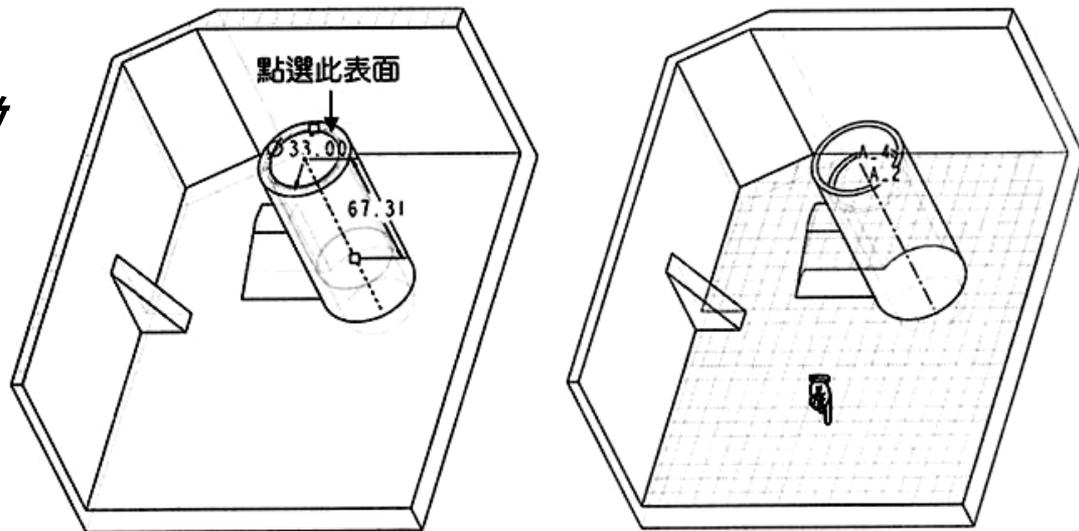


4. Rib

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

