

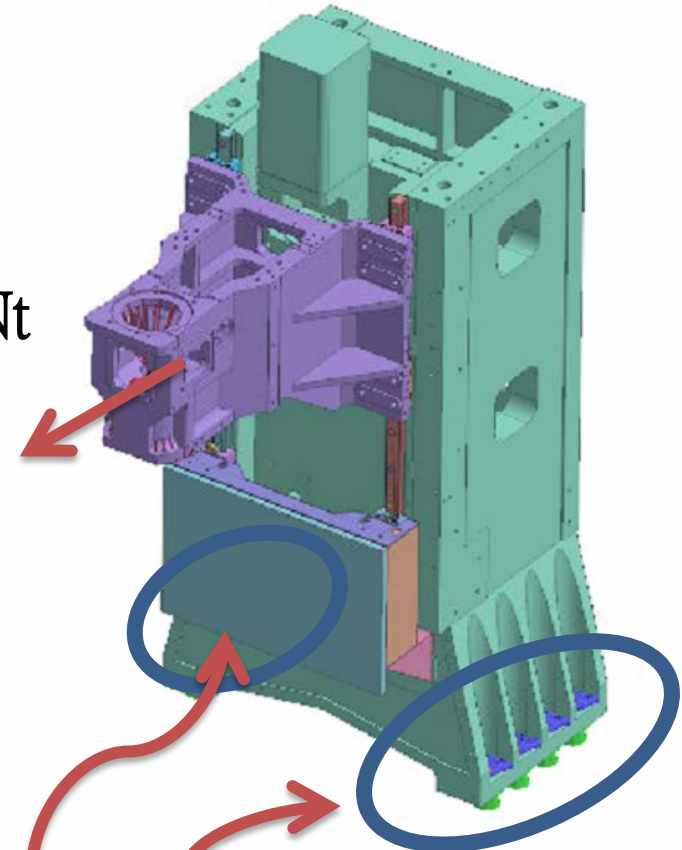


預力模態_立柱預力模態分析

Simple, but Everything.



$$F=5000Nt$$



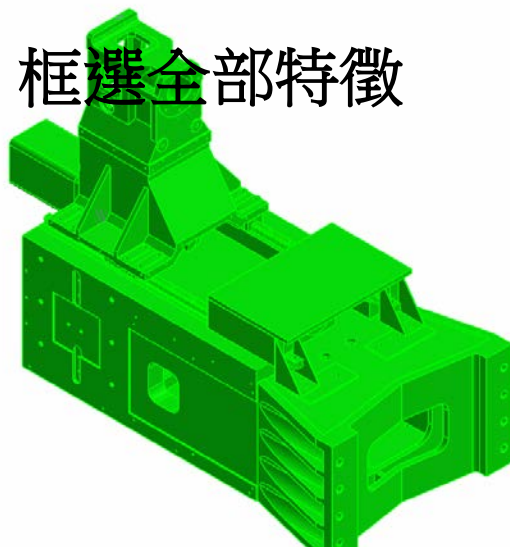
固定X,Y,Z

材料: Alloy Steel

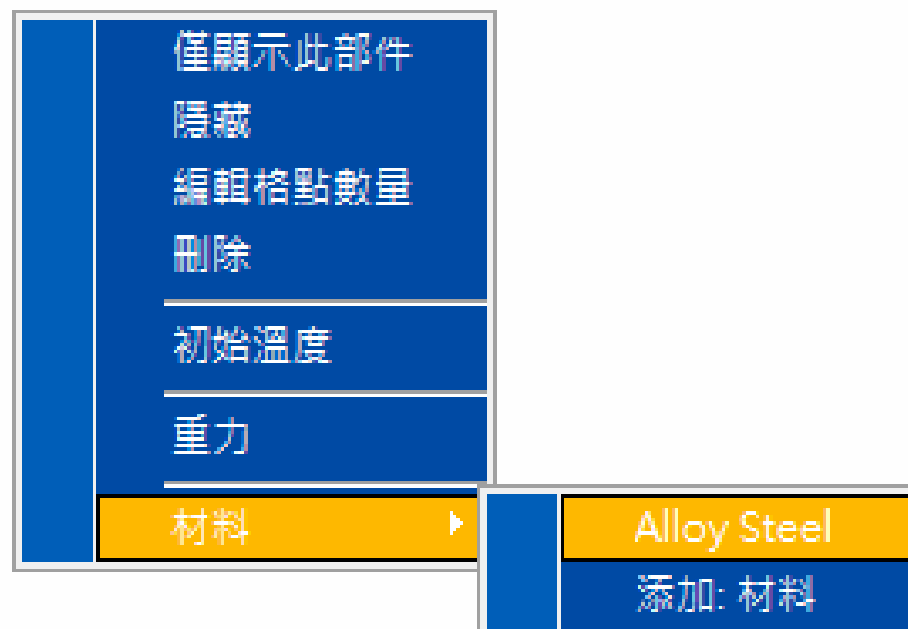
Step1.分析類型



框選全部特徵



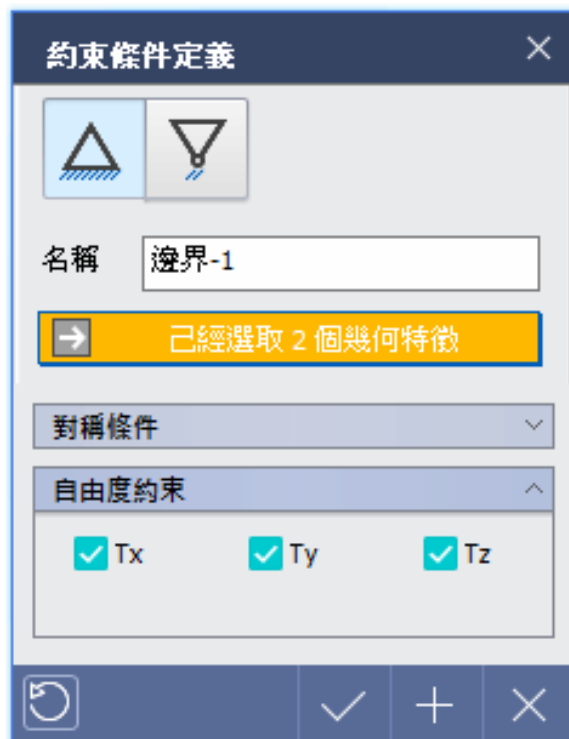
材料		顏色
幾何(72)		
☒	O8.0 (8) _1_2	Alloy Steel
☒	___1	Alloy Steel
☒	___u___s___C1	Alloy Steel
☒	M5x0.8 _1	Alloy Steel
☒	O8.0 (8) _1_2(1)	Alloy Steel
☒	___-___2	Alloy Steel
☒	___-___3	Alloy Steel
☒	___-___5	Alloy Steel
☒	___-___1	Alloy Steel
☒	___1(2)	Alloy Steel
☒	M5x0.8 _6	Alloy Steel
☒	CONE_2	Alloy Steel
☒	___1(3)	Alloy Steel



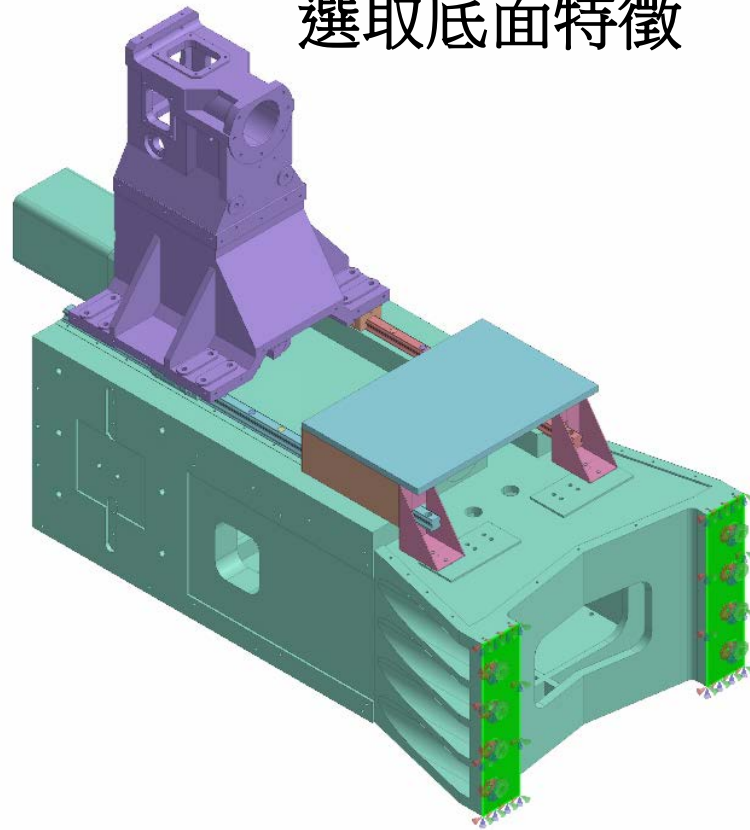
滑鼠右鍵,材料定義

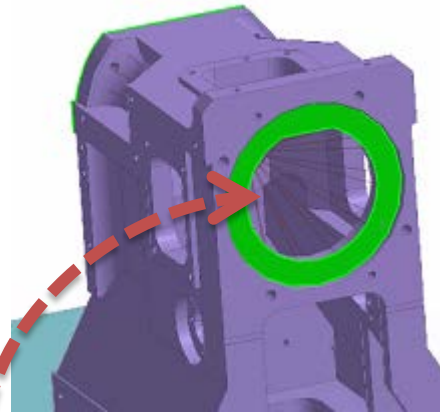


模型樹會顯示指定的材料

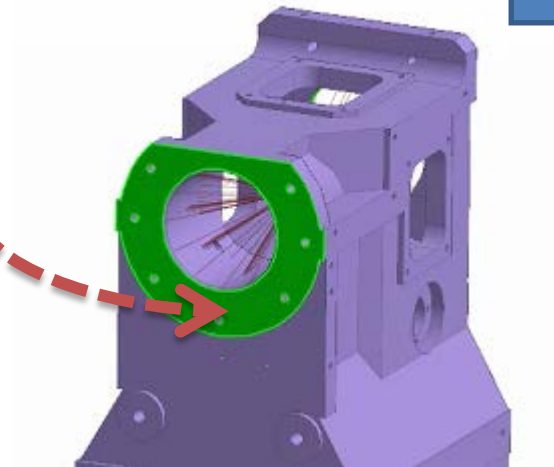
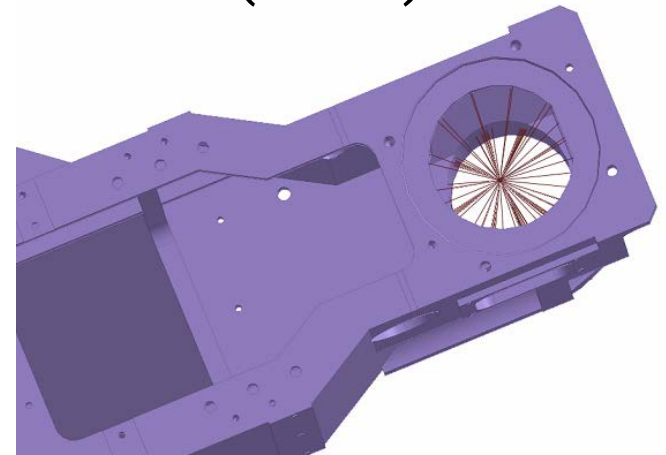
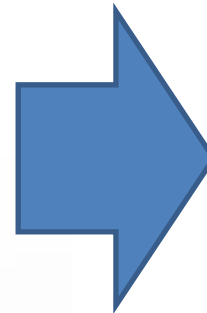


選取底面特徵





主軸上下特徵剛性連接
(RBE2)





載荷

力

名稱 **施加點**

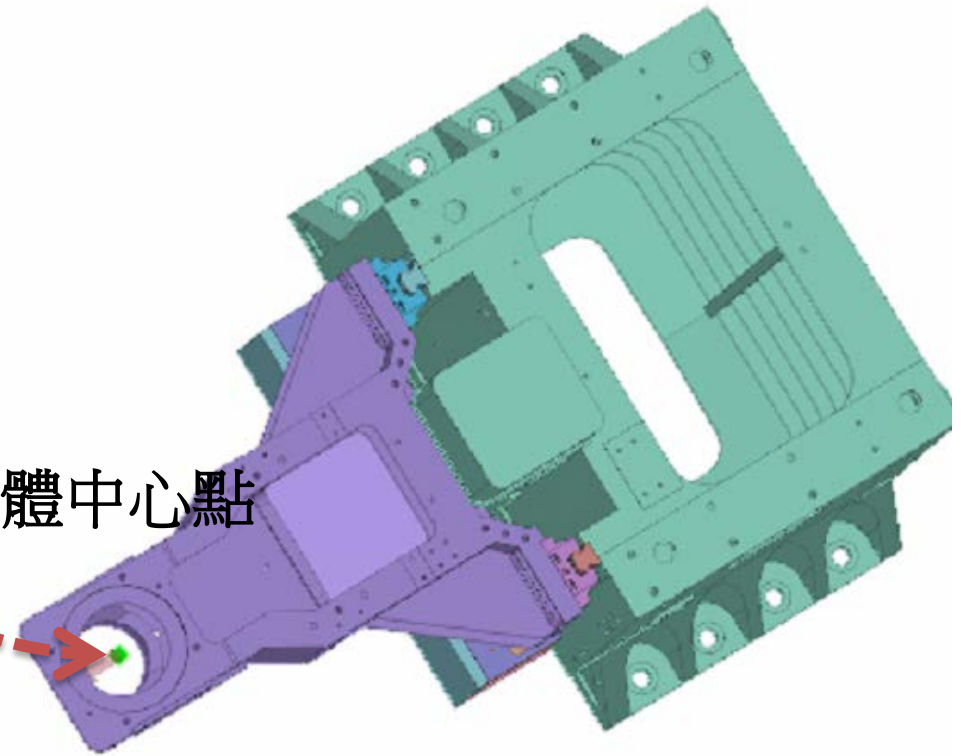
負載
類型 集中載荷

主
☒ 點 已經選取 1 個...
☐ 座標 0, 0, 0

從
選取幾何特徵

方向
X 0 N
Y 0 N
Z 5000 N

選取剛體中心點



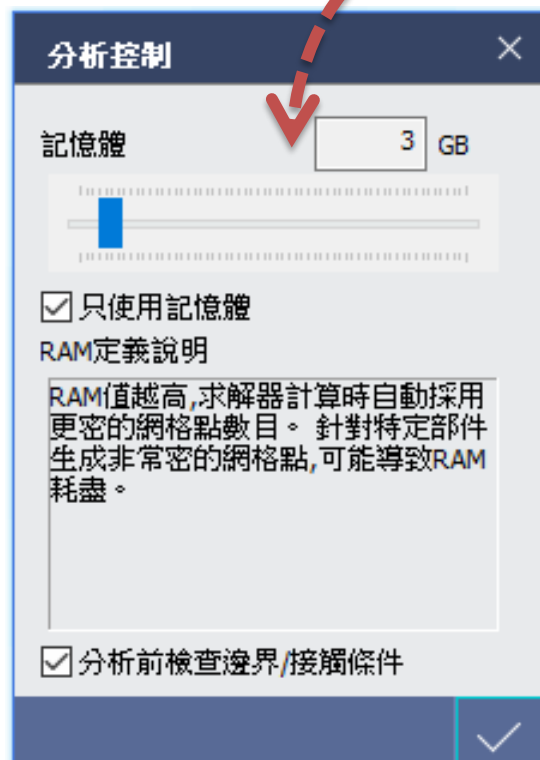


滑鼠左鍵,拖曳條件

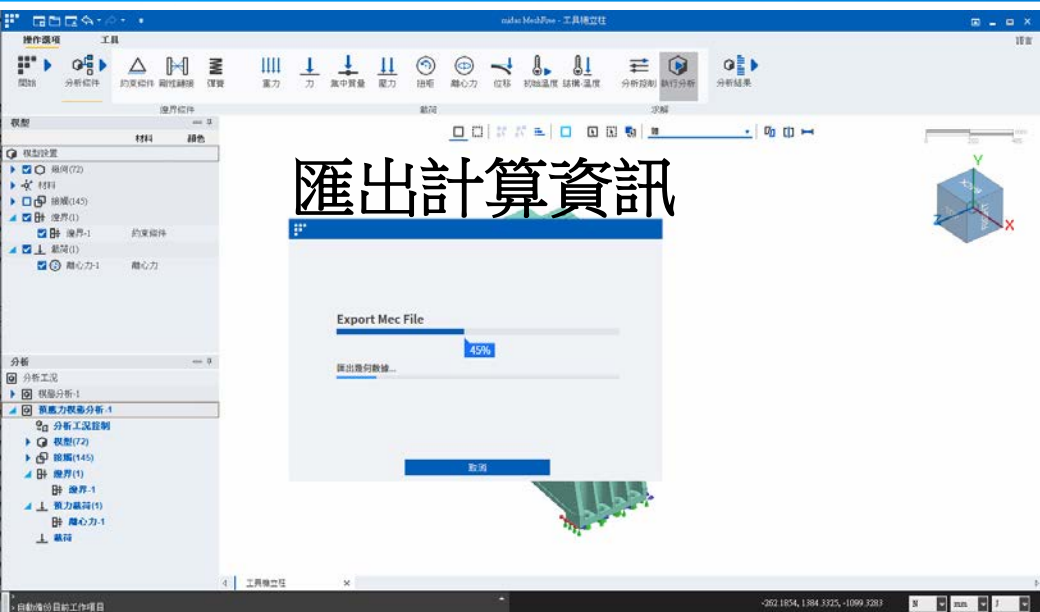




預應力模態分析

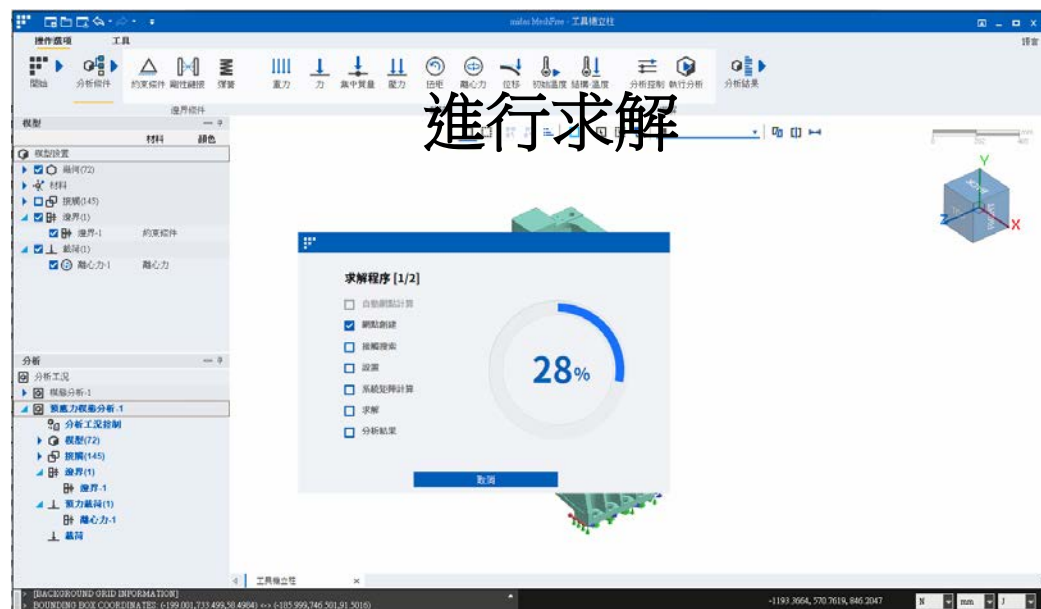


記憶體大小
1.計算速度
2.分析準確性

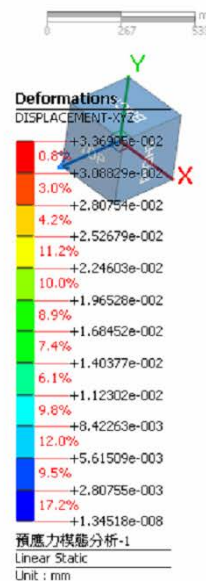
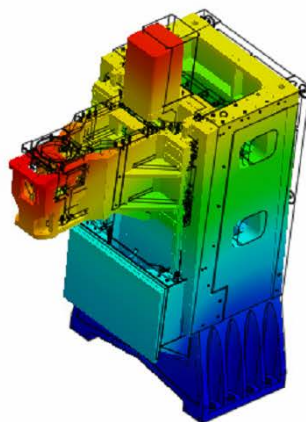


分析時間118.595sec
(採2G Ram)

```
> COMPUTING OUTPUT DATA FOR 10th MODE(1.1825e+007)
> ANALYSIS WALL CLOCK TIME : 27.288 sec
> ANALYSIS COMPLETED
>
> [SYSTEM INFO]
> NUMBER OF THREADS : 8
> MAXIMUM MEMORY USAGE : 4625 MB
> AVAILABLE MEMORY : 24466 MB
> TOTAL CPU TIME : 611.563 sec
> WALL CLOCK TIME : 118.595 sec
> TOTAL WARNINGS : 0
```

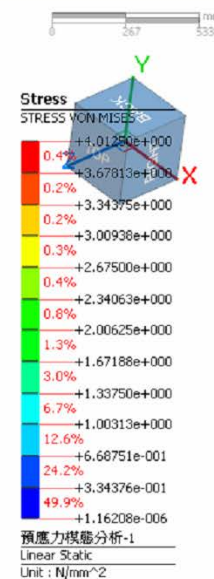
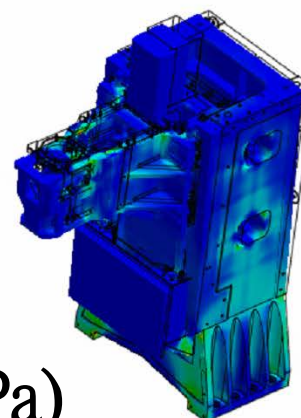


分析類型 預應力模態分析-1
子工况 Linear Static
Step Linear Static
結果 DISPLACEMENT-XYZ



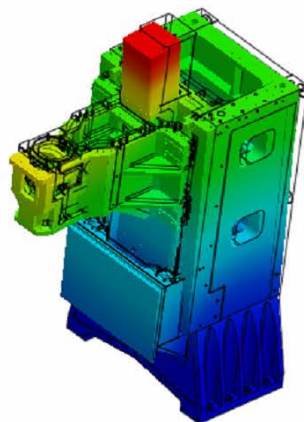
變形量(mm)

分析類型 預應力模態分析-1
子工况 Linear Static
Step Linear Static
結果 STRESS VON MISES

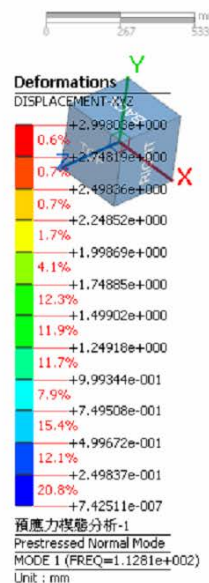


應力(MPa)

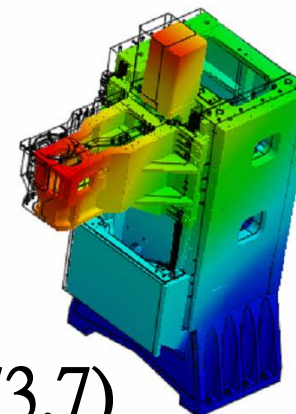
分析類型 預應力模態分析-1
子工况 Prestressed Normal Mode
Step MODE 1 (FREQ=1.1281e+002)
結果 DISPLACEMENT-XYZ



預力Mode1(112.81Hz)



分析類型 預應力模態分析-1
子工况 Prestressed Normal Mode
Step MODE 2 (FREQ=1.7370e+002)
結果 DISPLACEMENT-XYZ



預力-Mode2(173.7)

