



線性結構_底座結構強度分析

Simple, but Everything.

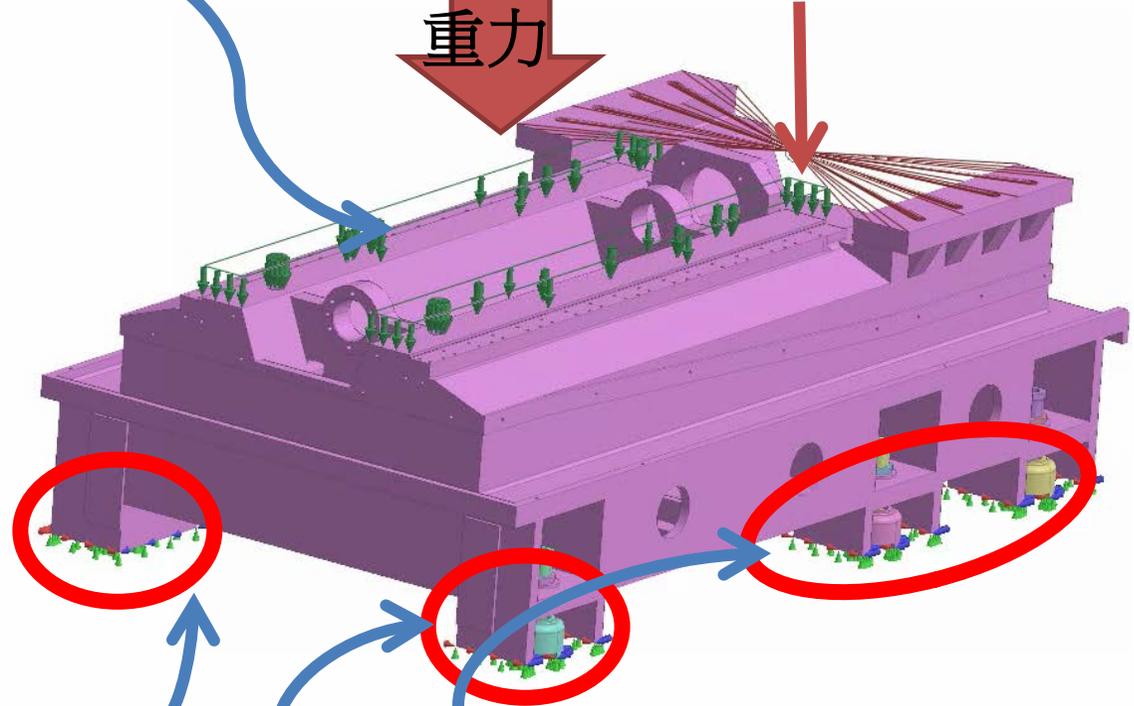




滑軌均壓: 20 Nt/mm^2

立柱重假設: 500 Kg

重力

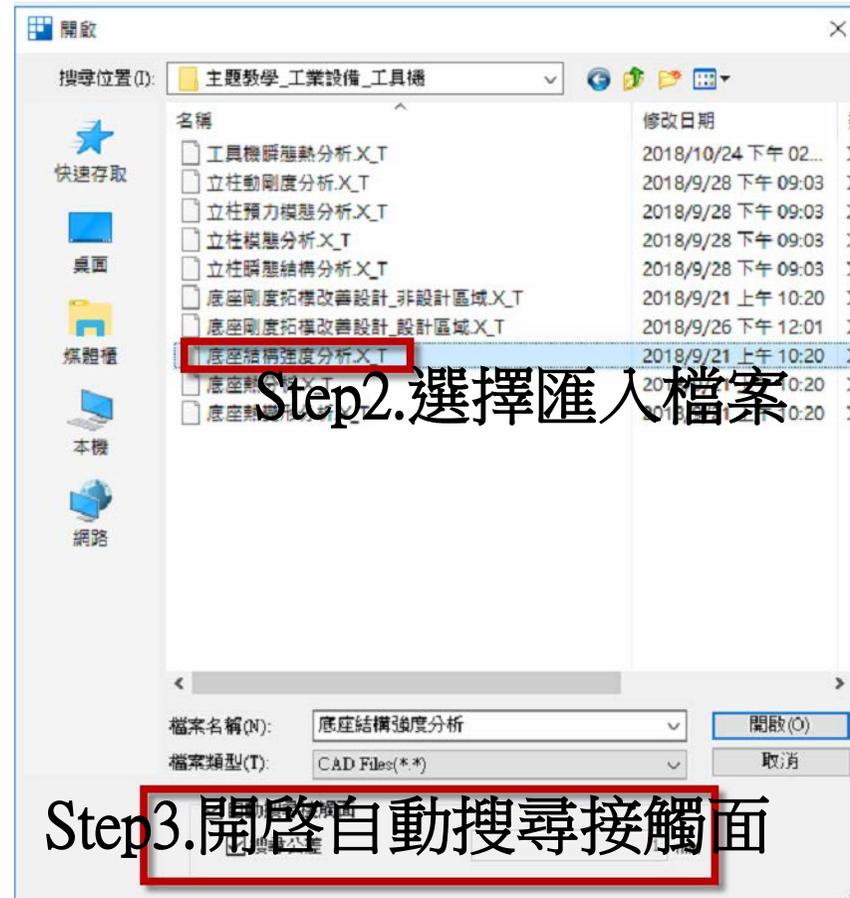


固定X,Y,Z

材料: Alloy Steel



Step1.匯入3D 模型

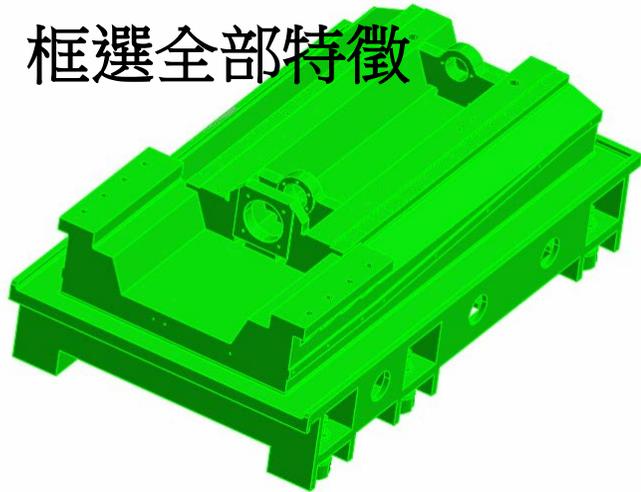


MeshFree支援各類CAD 格式

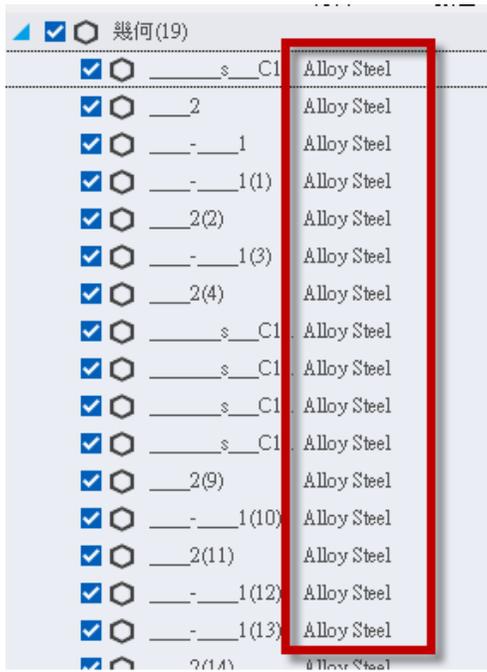
- Parasolid (9 - 29) Files (*.x_t;*.xmt_txt;*.x_b;*.xmt_bin)
- ACIS (R1 - 2017 1.0) Files (*.sat;*.sab;*.asat;*.asab)
- STEP (AP203, AP214, AP242) Files (*.stp;*.step)
- IGES (Up to 5.3) Files (*.igs;*.iges)
- Pro-E (16 - Creo 3.0) Files (*.prt;*.prt.*;*.asm;*.asm.*)
- CATIA V4 (CATIA 4.1.9 - 4.2.4) Files (*.model;*.exp;*.session)
- CATIA V5 (V5R8 - V5-6R2016) Files (*.CATPart;*.CATProduct)
- Solid Works (98 - 2017) Files (*.sldprt;*.sldasm)
- Unigraphics (11 - NX11) Files (*.prt)
- Inventor Part (V6 - V2017) Files (*.ipt)
- Inventor Assembly (V11 - V2017) Files (*.iam)
- Solid Edge (V18 - ST9) Files (*.par;*.asm;*.psm)

Step3.開啓自動搜尋接觸面

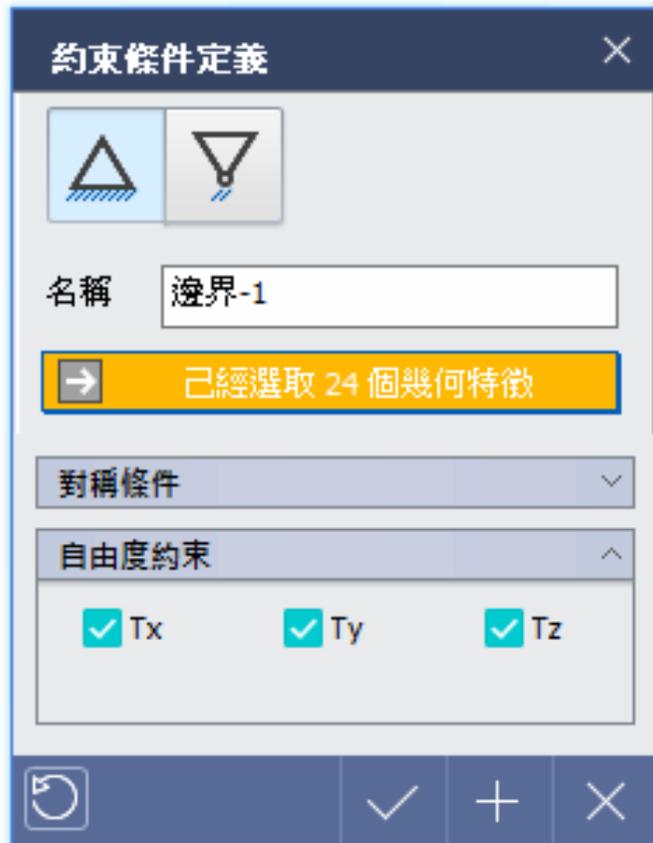
框選全部特徵



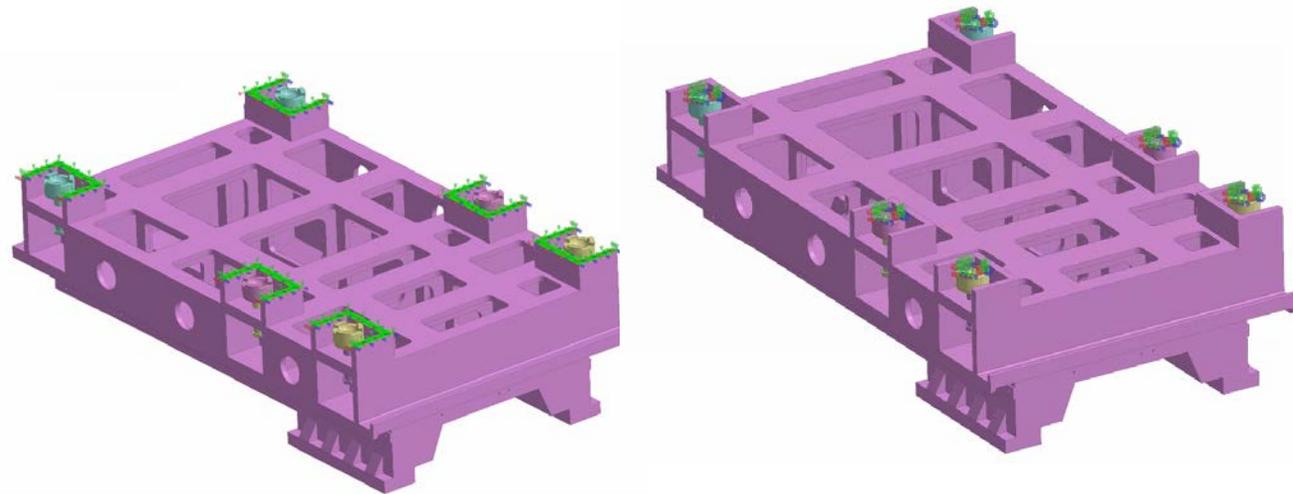
滑鼠右鍵,材料定義

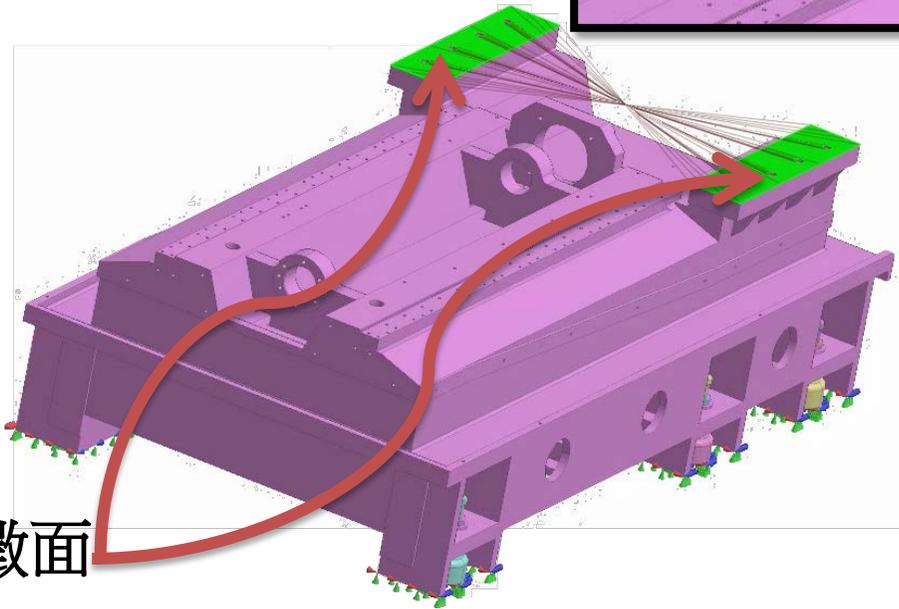
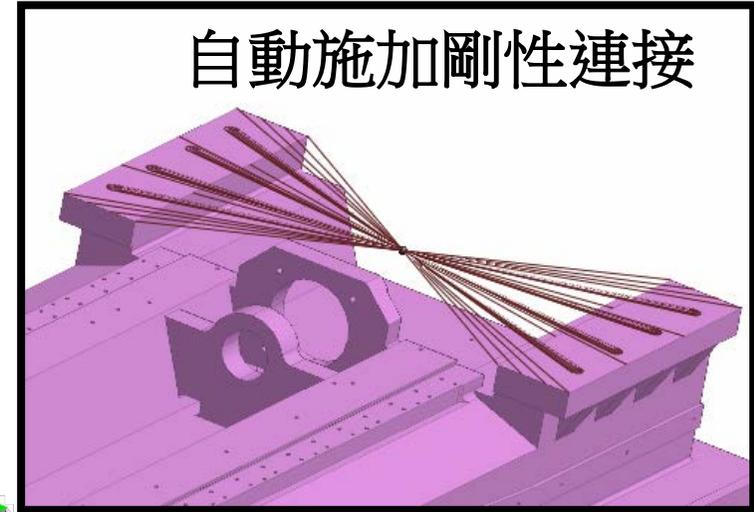
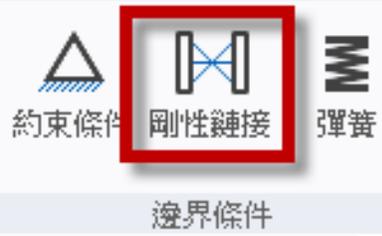


模型樹會顯示指定的材料



選取拘束底面特徵





選取立柱鎖附位置特徵面

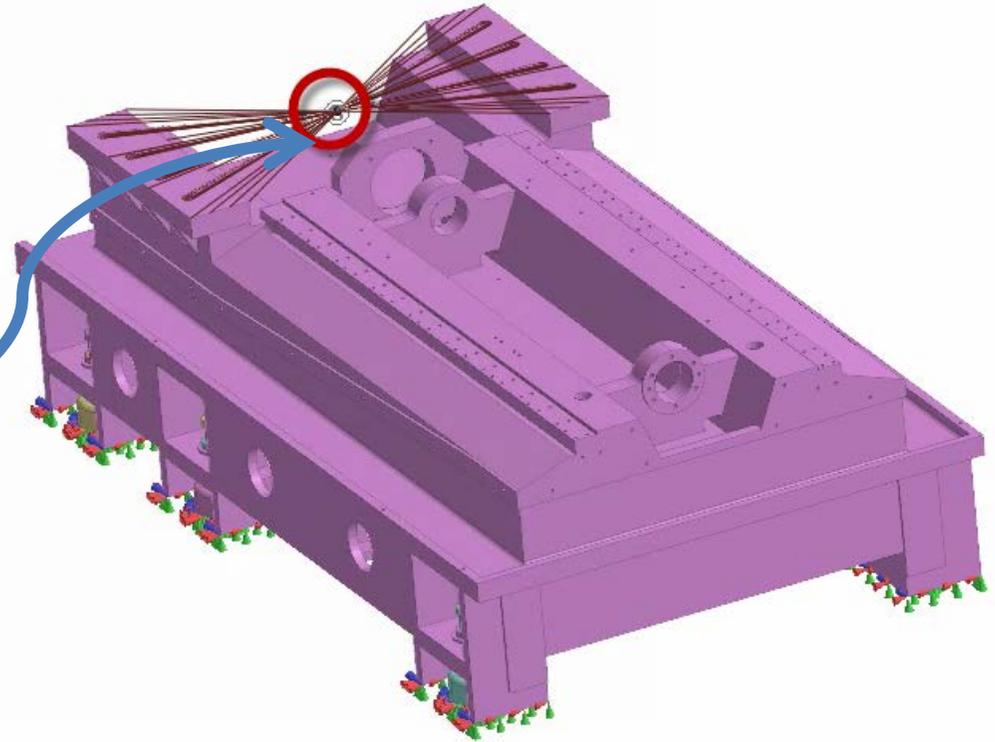


載荷



點施加質量

施加在剛性連接中間點

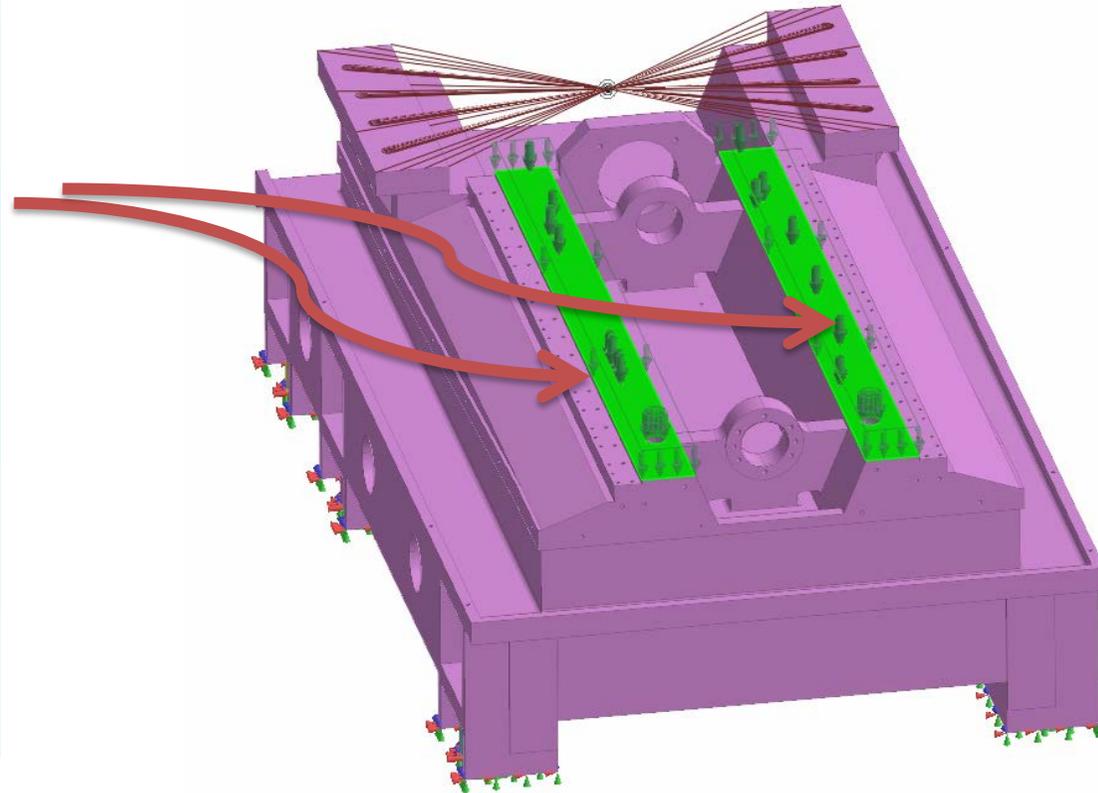




載荷

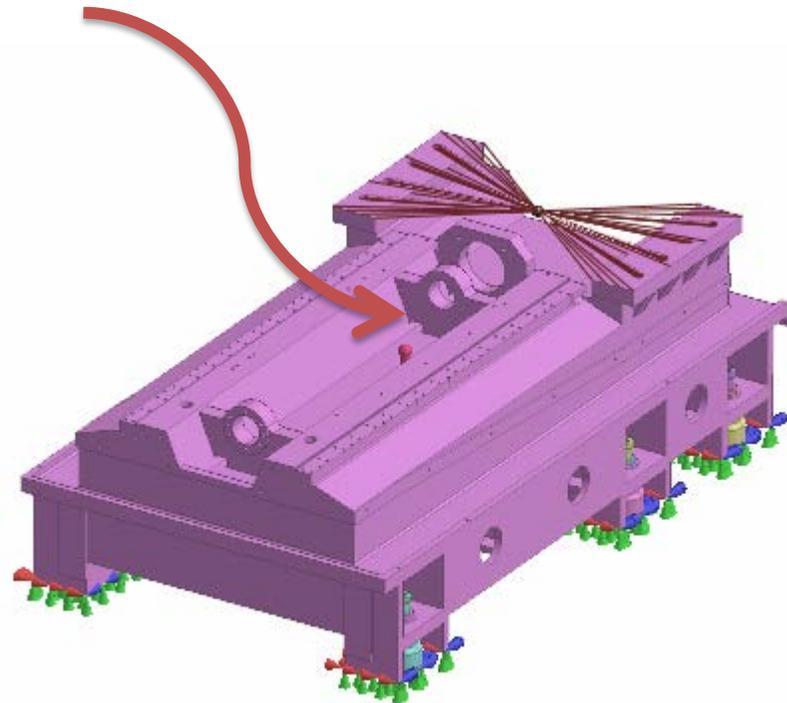


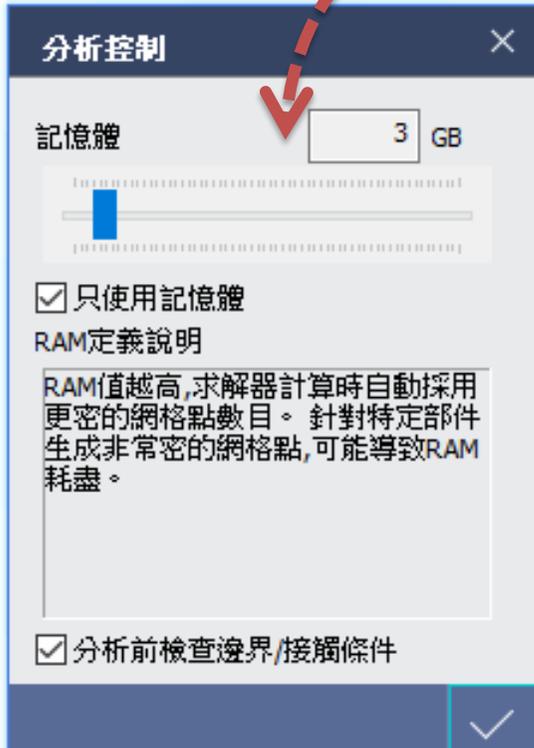
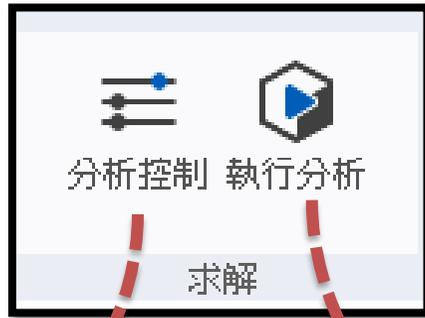
選擇滑軌特徵面



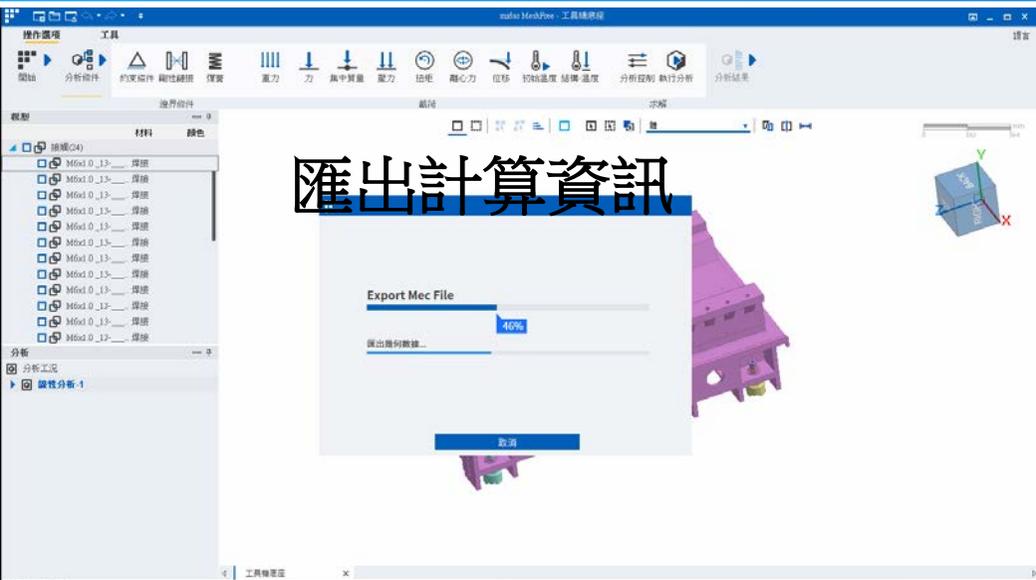


新增重力,視窗會顯示重力方向箭頭

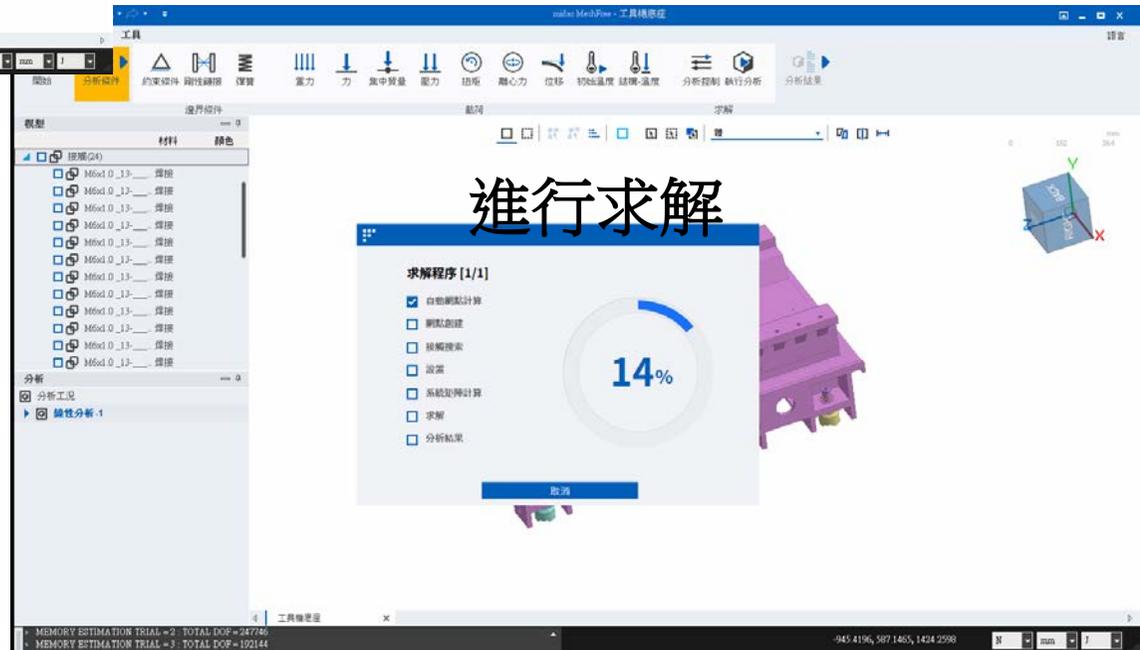




記憶體大小
1.計算速度
2.分析準確性



匯出計算資訊

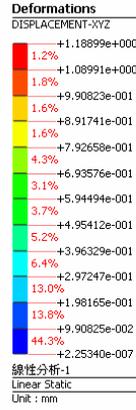
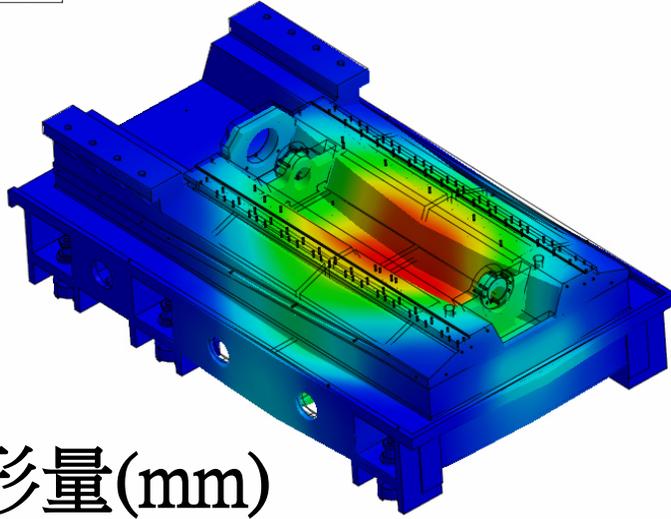
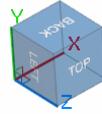


進行求解

分析時間21.338sec
(採2G Ram)

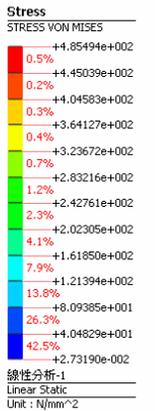
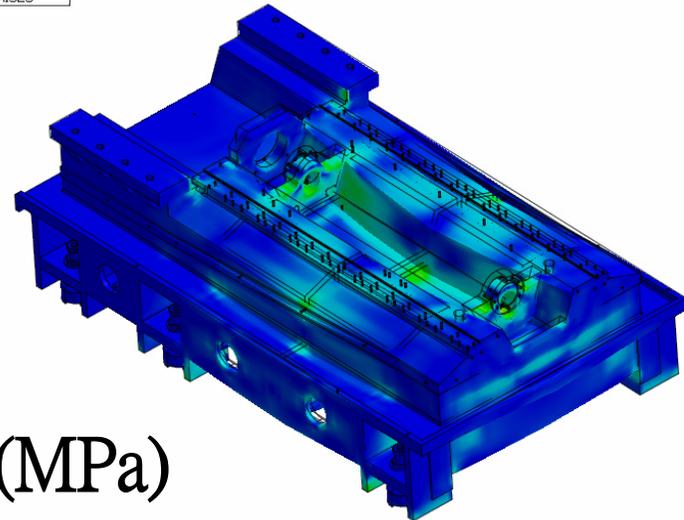
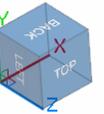
```
> MAXIMUM TRANSLATION : -5.9349E+000(T2:177308), MAXIMU
> ANALYSIS WALL CLOCK TIME : 12.553 sec
> ANALYSIS COMPLETED
>
> [SYSTEM INFO]
> NUMBER OF THREADS : 8
> MAXIMUM MEMORY USAGE : 2647 MB
> AVAILABLE MEMORY : 25376 MB
> TOTAL CPU TIME : 107.47 sec
> WALL CLOCK TIME : 21.338 sec
> TOTAL WARNINGS : 0
```

分析類型 線性分析-1
結果 DISPLACEMENT-XYZ



變形量(mm)

分析類型 線性分析-1
結果 STRESS VON MISES



應力(MPa)