



MIDAS

MESH FREE

熱_底座熱分析

Simple, but Everything.

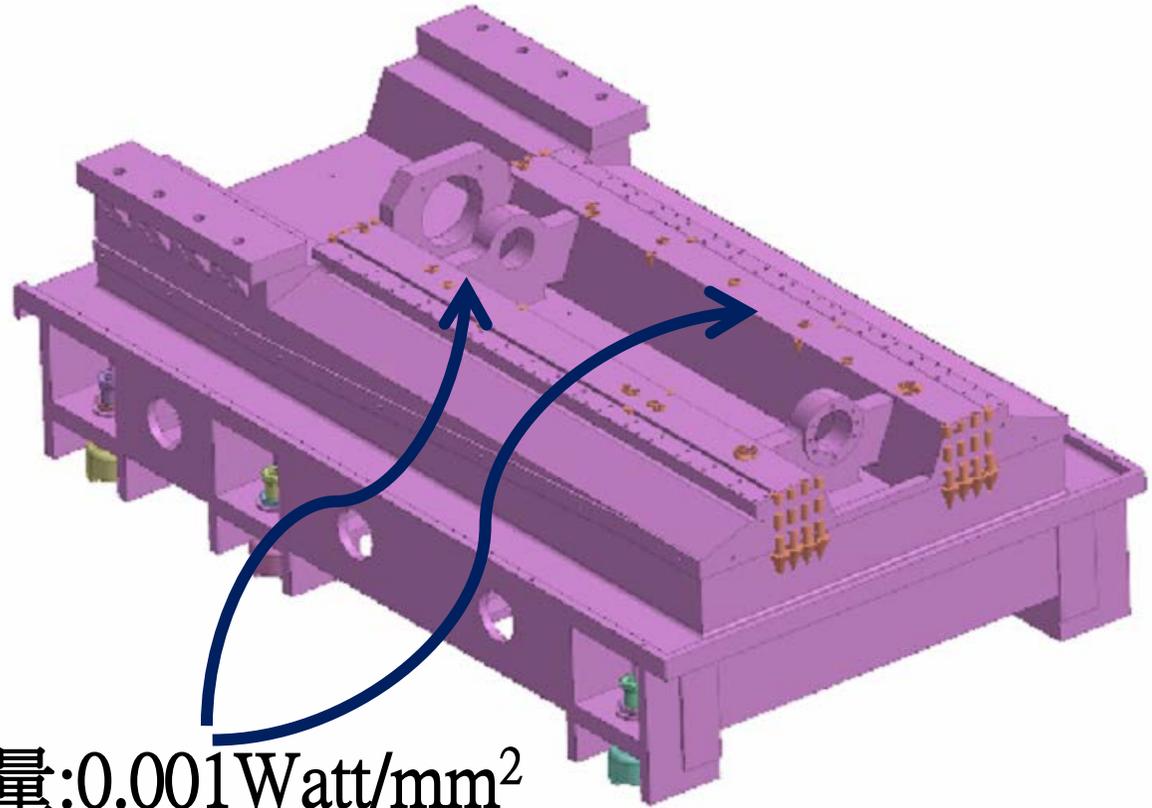




初始溫度:25 °C

環境(工作)溫度:28°C

空氣熱對流係數: 1×10^{-5} (W/mm² °C)



熱通量:0.001Watt/mm²

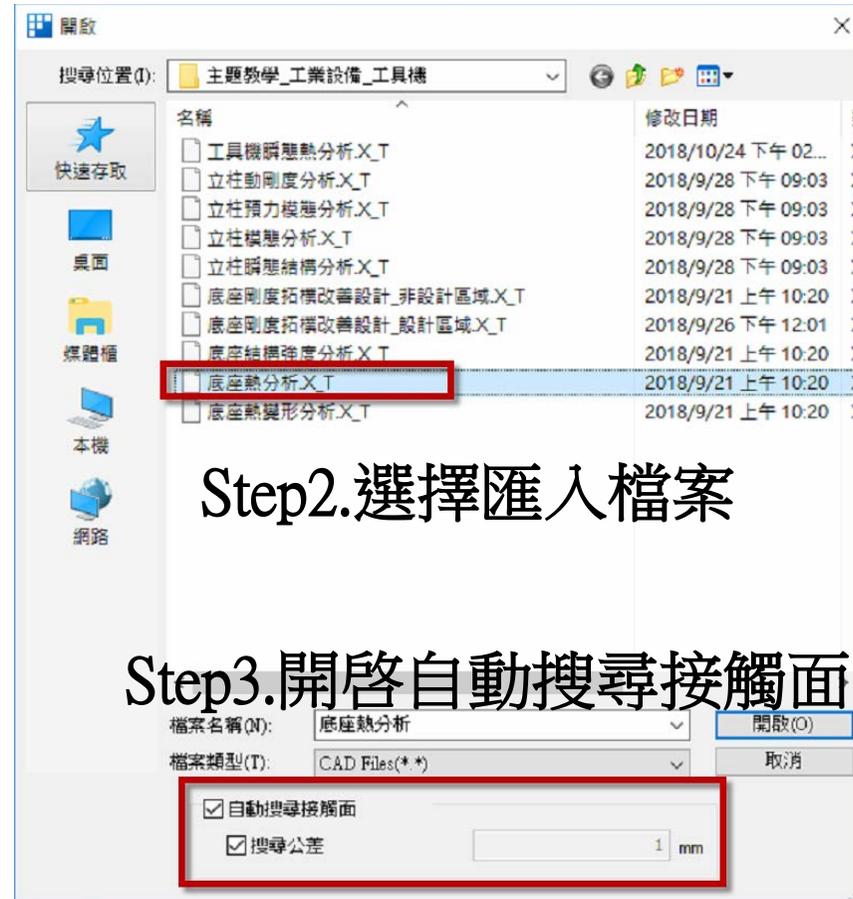
材料: Alloy Steel



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)

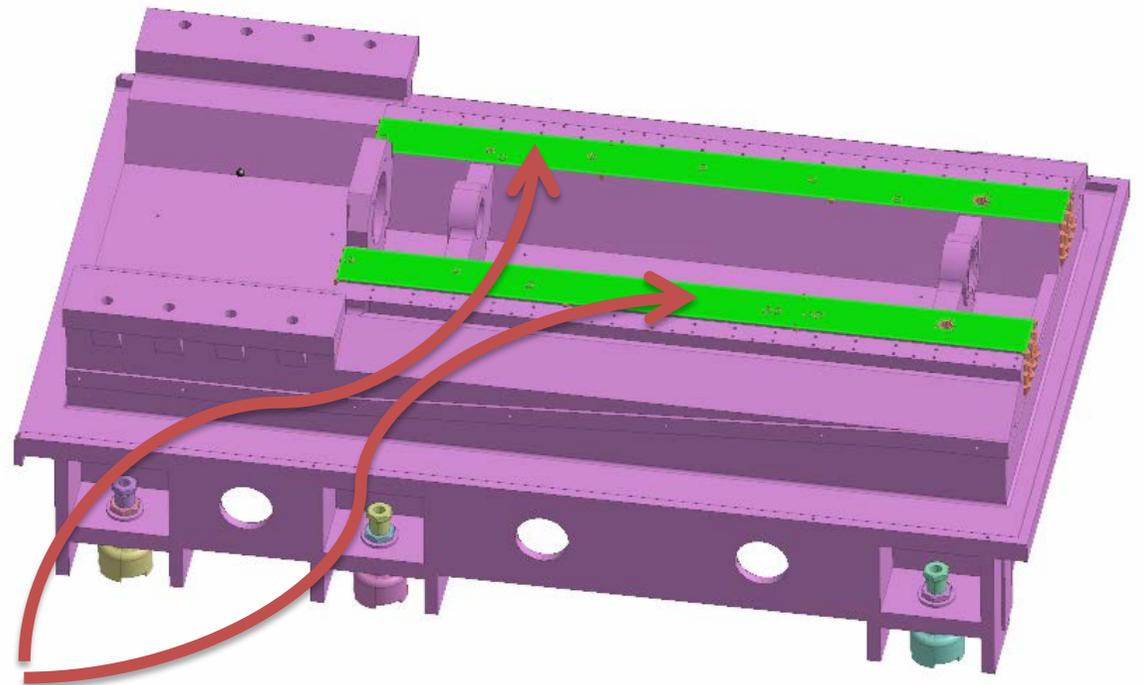


Step2.選擇匯入檔案

Step3.開啓自動搜尋接觸面



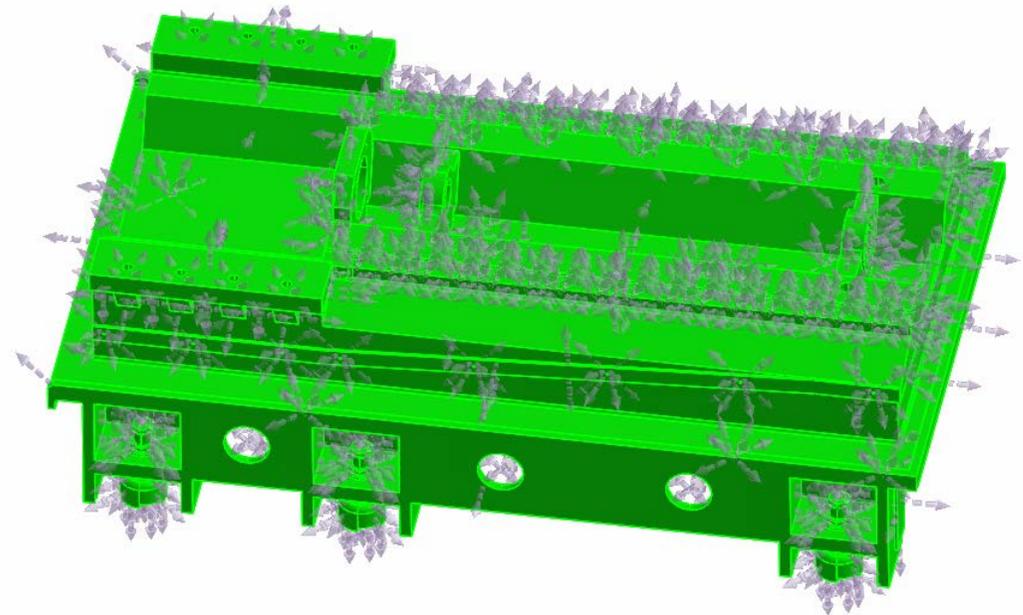
載荷

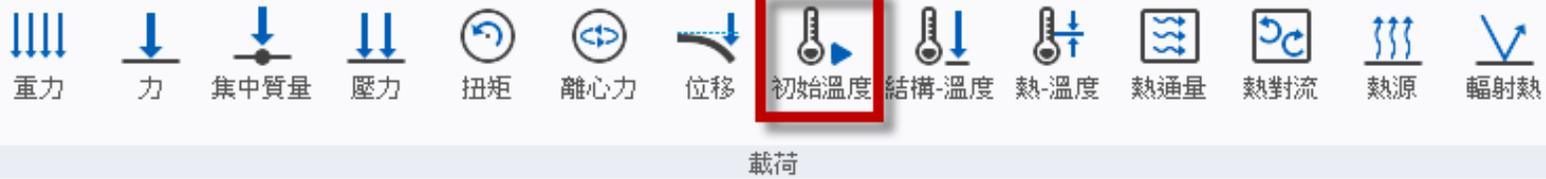


選取滑軌特徵面



框選所有特徵面





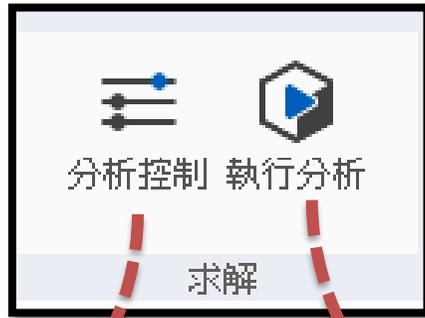
初始溫度 ✕

名稱

初始溫度 ^

溫度 [°C]

↺ ✓ + ✕

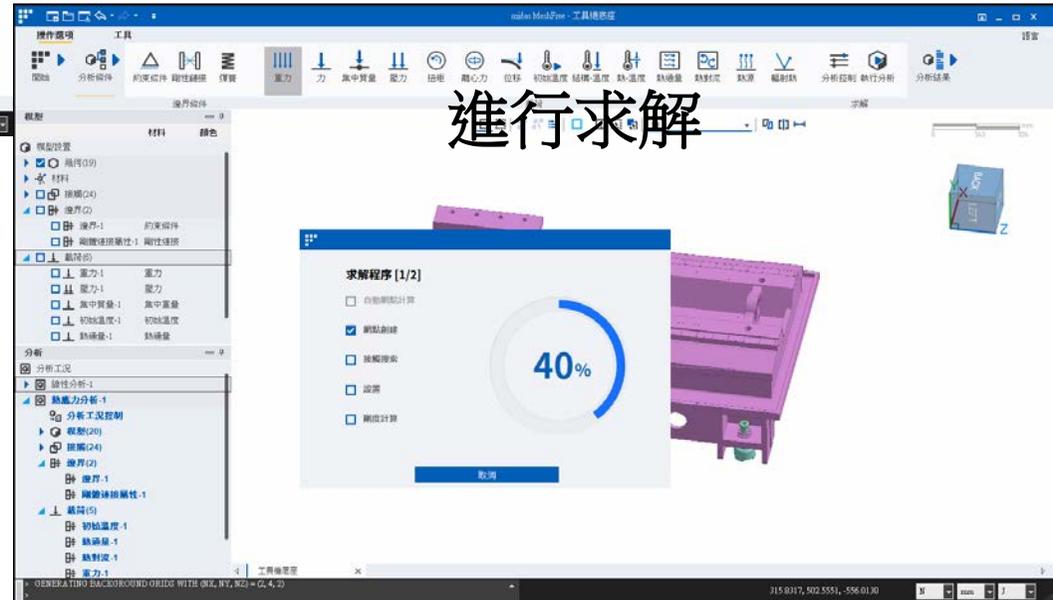
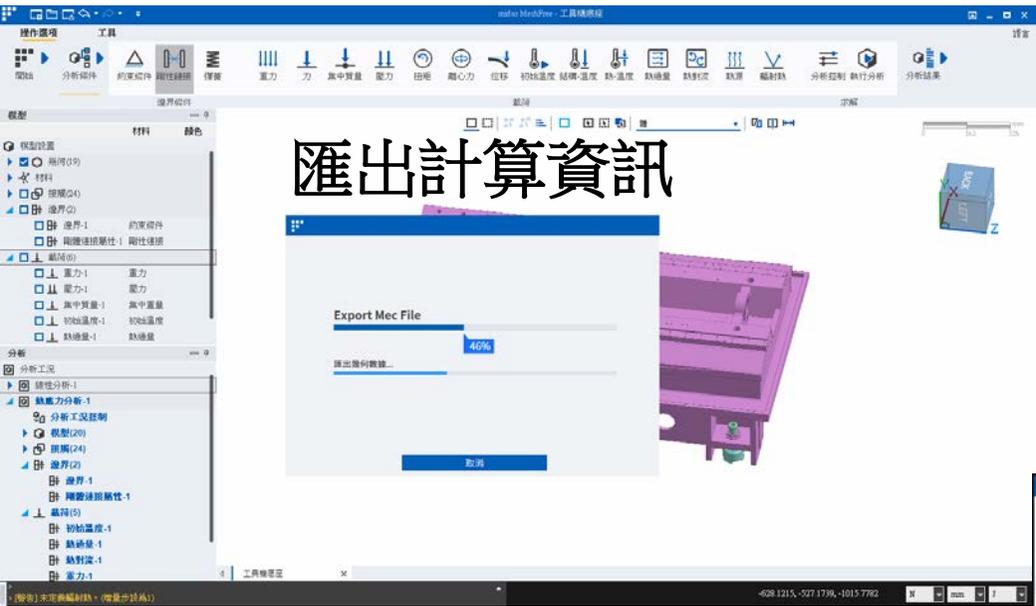


進行熱分析計算



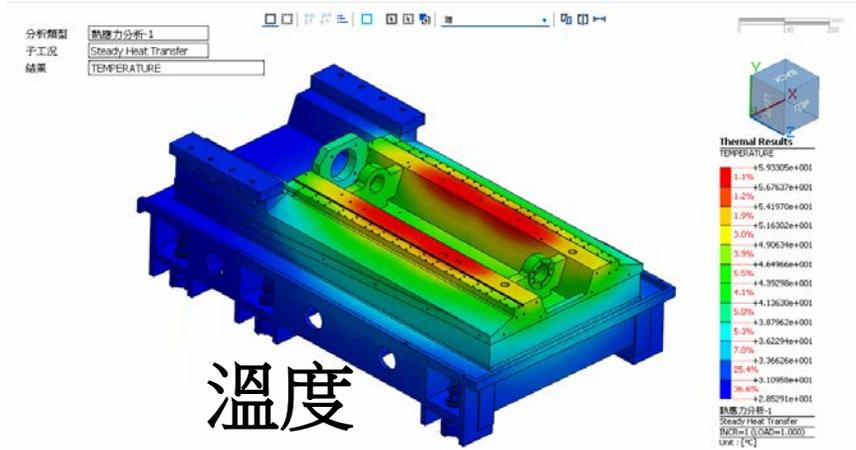
記憶體大小

1. 計算速度
2. 分析準確性

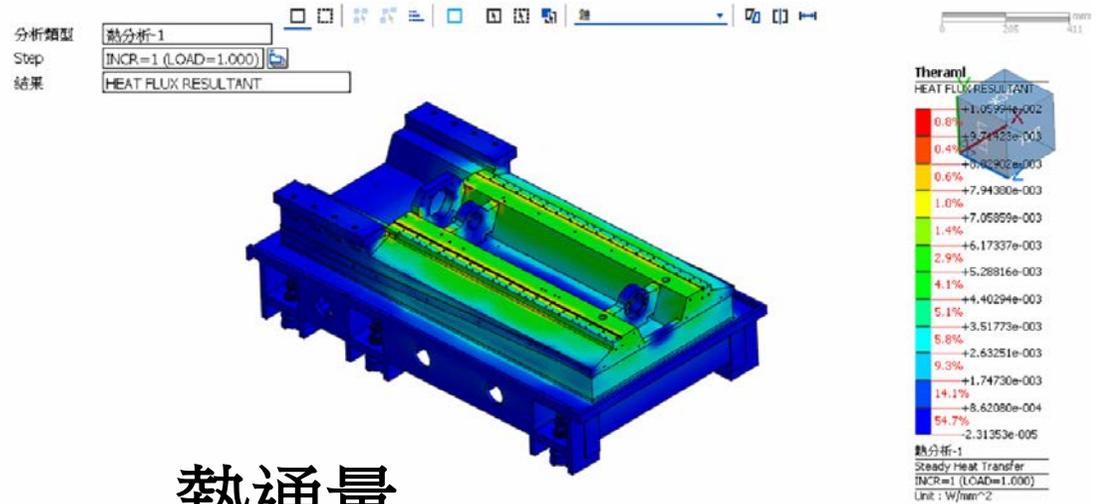


分析時間34.917sec
(採2G Ram)

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> MAXIMUM TRANSLATION : 2.3339E-001 (T3:257075), MAXIMUM ROTATION : -9.9
> ANALYSIS WALL CLOCK TIME : 15.789 sec
> ANALYSIS COMPLETED
>
> [SYSTEM INFO]
> NUMBER OF THREADS : 8
> MAXIMUM MEMORY USAGE : 2660 MB
> AVAILABLE MEMORY : 25413 MB
> TOTAL CPU TIME : 129.859 sec
> WALL CLOCK TIME : 34.917 sec
> TOTAL WARNINGS : 0
```



溫度



熱通量