

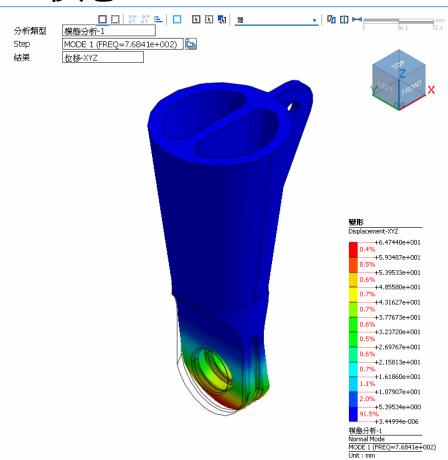


預力模態分析 EX3.電纜接頭

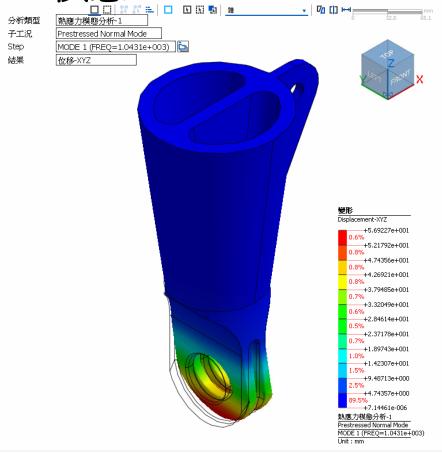
Simple, but Everything.



## 未施加載荷 模態1:7.6841×10<sup>2</sup>Hz



## 施加載荷 模態1:1.0431×10<sup>3</sup>Hz

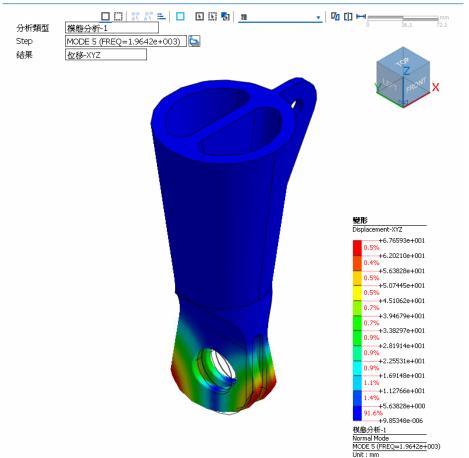


振型相似但頻率差異很大

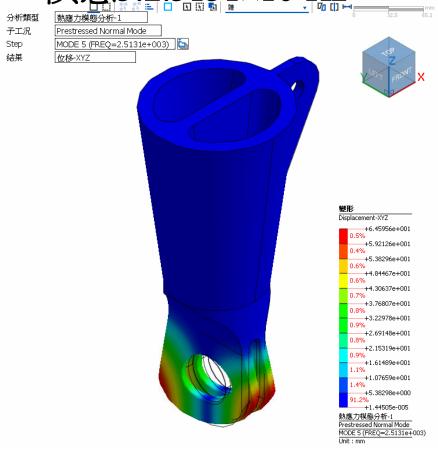




## 未施加載荷 模態5:1.9643×10<sup>3</sup>Hz



# 施加載荷 態5:2.5131×10<sup>3</sup>Hz



振型相似但頻率差異很大





X,Y,Z拘束



初始溫度:25℃

環境(工作)溫度:28℃

空氣熱對流係數: 5 ×10-6 (W/mm² ℃)

材料:Alloy Steel

熱通量:0.01Watt/mm²

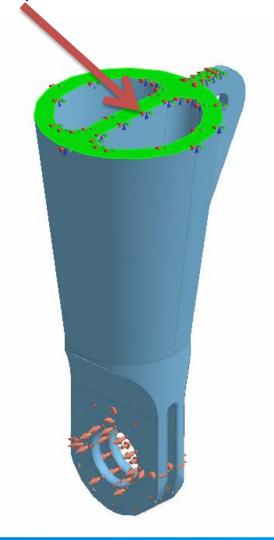






拘束(X,Y,Z)

約束條件定義	×
A Y	
名稱 邊界-1	
→ 己經選取1個幾何特徵	
對稱條件	~
自由度約束	^_
✓ Tx ✓ Ty ✓ Tz	
	<







載荷

Step1. 選擇2個圓孔特徵面



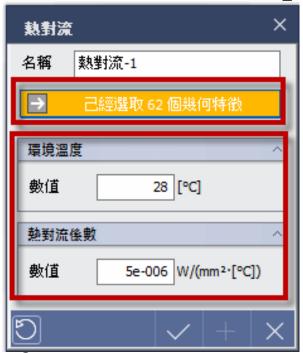






載荷

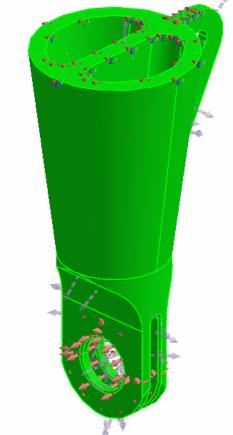
### Step1. 選擇所有特徵面



Step2.

環境(工作)溫度:28℃

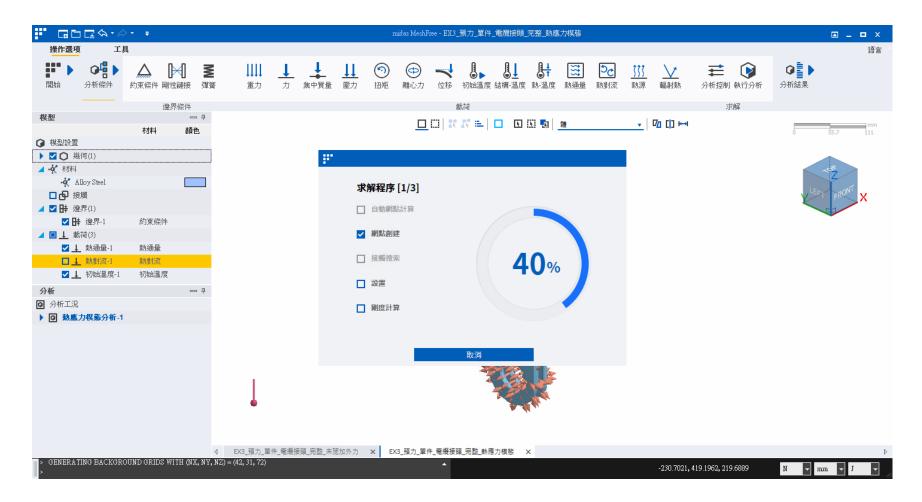
空氣熱對流係數: 5 ×10-6 (W/mm<sup>2</sup> ℃)





#### 執行分析



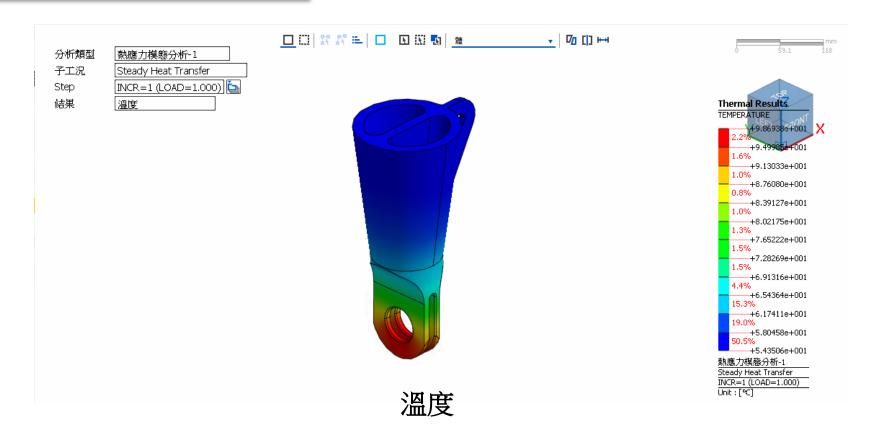






分析類型 <u>熱應力模態分析-1</u> 子工況 Steady Heat Transfer Step INCR=1 (LOAD=1.000) ☐ 結果 <u>溫度</u>

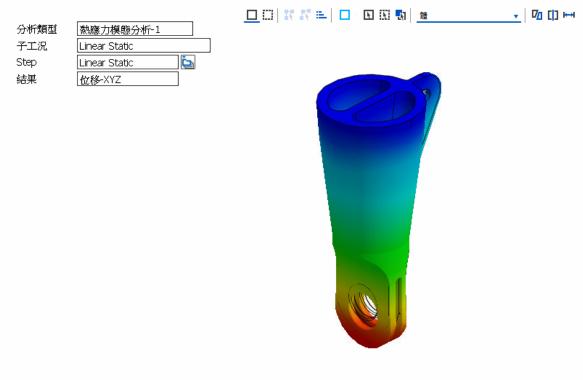
子工況:選取Steady Heat Transfer



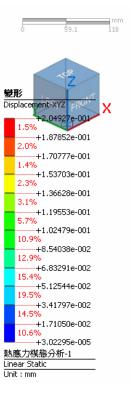




子工況:選取Linear Static



變形(mm)





子工況:選取Pre-stressed Normal Model

Step:選擇各模態

