

High Resolution FE Model of Bone - Numerical Results

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Problem Specification

- 1. Pre-Analysis & Start-Up
- 2. Geometry
- 3. Mesh
- 4. Physics Setup
- 5. Numerical Solution
- 6. Numerical Results
- 7. Verification & Validation

Exercises

Comments

Numerical Results

The force reaction at the support is 72.558 N. This force acts only in the Y direction, since only the y-displacement is constrained at the support. The model is allowed to deflect in the X direction, hence one will not find a reacting force in that direction.

Details of "Force Reaction" ▾ 🔍 □ ×	
[-] Definition	
Type	Force Reaction
Location Method	Boundary Condition
Boundary Condition	Frictionless Support
Orientation	Global Coordinate System
Suppressed	No
[-] Options	
Result Selection	All
☐ Display Time	End Time
[+] Results	
[-] Maximum Value Over Time	
☐ X Axis	0. N
☐ Y Axis	72.558 N
☐ Z Axis	-0.10937 N
☐ Total	72.558 N
[-] Minimum Value Over Time	
☐ X Axis	0. N
☐ Y Axis	72.558 N
☐ Z Axis	-0.10937 N
☐ Total	72.558 N
[+] Information	

We can validate the simulation using the reaction force. Move on to verification and validation.

[Go to Step 7: Verification & Validation](#)

[Go to all ANSYS Learning Modules](#)