

ANSYS AIM Permanent Magnetic Circuit with Air Gap - Geometry

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[Problem Specification](#)

1. [Pre-Analysis & Start-Up](#)


2. [Geometry](#)

3. [Physics Setup](#)

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Geometry

You will be prompted to either **Define new geometry**, **Import geometry file**, or **Connect to active CAD session**. Select **Import new geometry** and downloaded the file [here](#). Uncheck the **Compute inductance** option in the **Magnetics Physics** template and click **Finish**. The inductance calculation is not required for this simulation as there is no current source in the model.



Magnetics: Physics

Calculation type:

☒ Static

☐ Frequency response

Physics coupling: ?

☐ Solid heating due to electromagnetic effects

☐ Electromagnetic effects due to solid heating

Options:

☒ Create surrounding region

☐ Compute inductance

☐ Compute force

☐ Compute torque

Typical settings and results will be defined automatically.

[Go to Step 3: Physics Setup](#)

[Go to all ANSYS AIM Learning Modules](#)