## **ANSYS AIM - 3D Static Force Computation**

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Problem Specification

- 1. Pre-Analysis & Start-Up
- 2. Geometry

3. Physics Setup

4. Solution/Results

## **3D Static Force Computation**

Created using ANSYS AIM 18.2

## **Problem Specification**

The yoke and center pole shown directly below are made of Steel 1010. The stranded copper coil is excited by a DC current. The coil ampere-turns are 1000, 3000, 4500 and 5000 which is sufficient to saturate the steel. Calculate the magnetic field and electromagnetic force.



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