

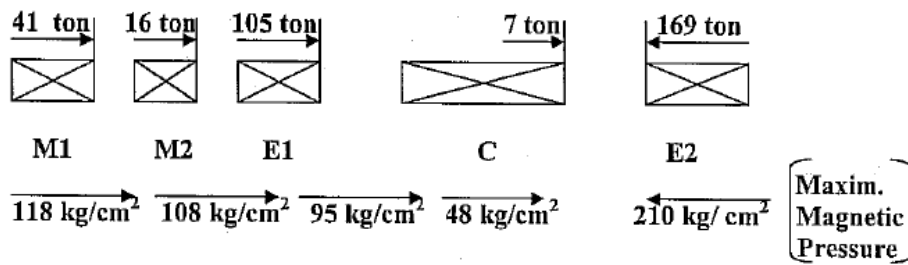
Longitudinal coil forces from p. 17 of the file:

[Final-Engineering-Design-for-MICE-SS-Magnets_Sep2006.pdf](#)

II-5. Calculation of the Axial Forces and Axial Magnetic Pressure

Radial field component, B_r , generate axial magnetic force and pressure. Figure II-5-1 tabulates the total axial forces and maximum axial magnetic pressure for each coil.

Figure II-5-1. Axial Coil Force & Maximum Axial Pressure



Therefore, E2 coil has maximum axial magnetic pressure of 210 kg/cm².