**EE-250L Electric Machinery Fundamentals**

**Name:**

Muhammad Asad

**Roll No & Section:**

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* **Paragraph:**

Permanent Magnet Synchronous machines are very widely used because of their simplicity other than electromagnets.

They have very good efficiencies. They have a strong Structure refuging the need for a separate excitation and save some electrical power.

Permanent magnet synchronous torque motors typically have higher torque capacity and better torque utilization with faster acceleration and deceleration, compared to asynchronous induction type motors, and this has proven advantageous in the field, particularly with machine tools and other metal working.