**MidEMS**, optimum electromagnetic stirring for billet and small bloom casters

The MidEMS is the preferred stirrer design for billet and small bloom casting. Available for mold, strand, and final stirring, its rigid solid conductor construction and effective forced water-cooling design, allow for long life and reliable operation. With a combination of a custom designed stirrer and ABB’s industry leading metallurgical “Know-How”, each installation offers the maximum benefits possible.

**Internal MidMEMS.**
Mounted inside a mold housing as an integral component. Most installations fit existing oscillator designs.

**External MidMEMS**
Mounted externally around the mold. The units are not removed for mold or section size changes. Units can be mounted on the oscillator or statically to the caster structure.

**MidFEMS**
Maximum stirring dwell time due to a long core length design
Advantages of ABB MidEMS Stirring Systems

- **Maintenance free coil design**
  - no need for vacuum impregnation at regular intervals

- **Compact coil design**
  - allows for longer magnetic core length within a given overall length
  - longer core length gives more efficient stirring (less end losses)

- **Final EMS design**
  - allows for longer stirring time
  - allows more flexibility in casting speed variation

- **Forced water cooling design**
  - eliminates “dead cooling zones” in windings

- **Custom design**
  - maximizes stirring efficiency for each installation

**Advanced digital control technology in power supplies**

**Availability of power supply spare parts and service in local markets**

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