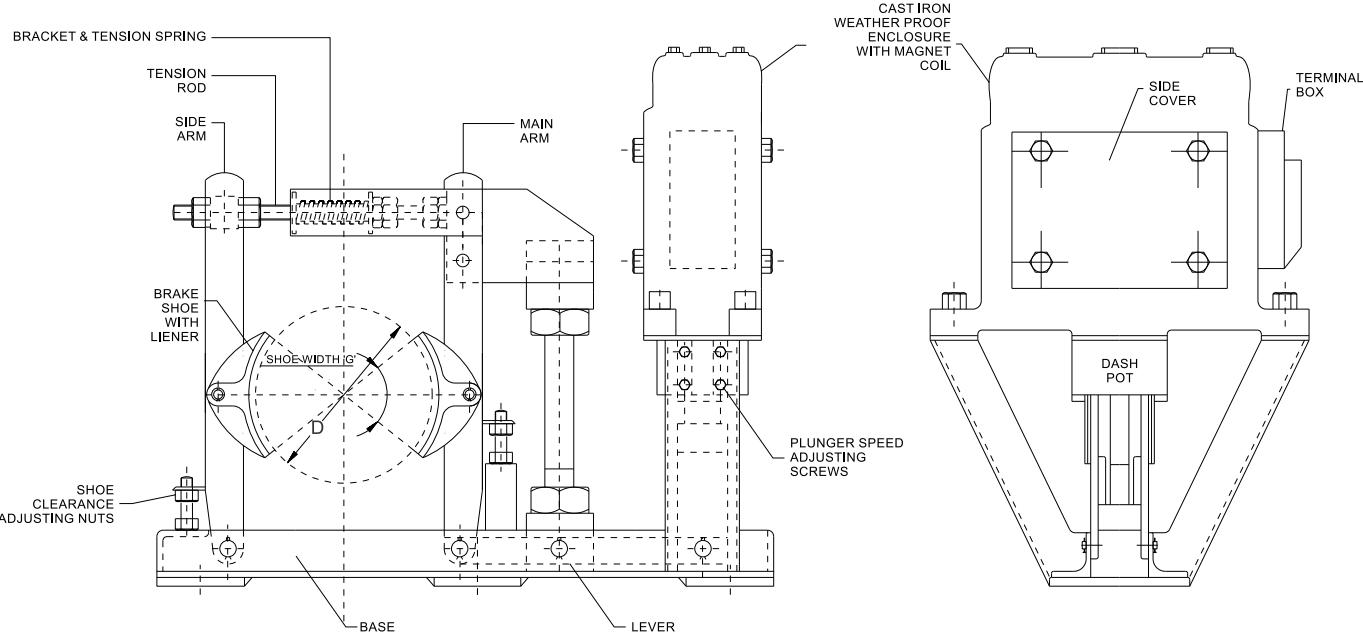


MOUNTING ADJUSTMENT INSTALLATION MANUAL

For essential component of EMS Drum Brake Please see Fig. 1 and find the following explanations:-

Component of EMT Drum Brake



BASE :-

The Brake is mounted on a base construction.

BRAKE ARM :-

Hinged with the brake shoe, they surround the brake drum and in connection with tension rod and dash pot they apply the braking force is generated by the spring.

TENSION SPRING :-

Consists of rod, torque spring. The adjustable braking force is generated by the torque spring.

MAGNET COIL :-

Is coil use to open the brake and is acting against the clamping force. The energy, required for release, is generated by Electro-Magnet.

TENSION ROD :-

Its function is to transit the braking force to the two brake arm, and therefore it is the most stressed component of the brake. In all brakes the tension rod is made of alloy steel with rolled threads.

BRACKET :-

The bracket is the hinge between tension rod and the brake arm bracket should be a pin junction as well

LEVER :-

Bracket, Tension Spring, Dash Pot are mounted to the lever. Here, the transformation from large stroke and small force into small stroke and high force is realised.

Brake are suitable for AC supply up to 415/440 V three phase, 50 Hz. and are available for 150 mm to 600mm Dia.

These brake are the available with rated torque ranging from 130 Kg. Cm, for the smallest brake (150mm dia drum). up to 8500 Kg. cms. (500 mm drum dia).

These brake have a more rigid construction and better designed, and more efficient Solenoid, with damping provided to cushion lamination impact and thereby extend solenoid life and provide a smoother braking action

These brakes have a better duty cycle then the single phase brakes.

Construction :-

Base & Brake Arm are cast iron high grade (FG-220) shoe are self-aligning, easy removable with fabric lining fixed with aluminum rivet, magnet solenoid type with laminated magnetic circuit having pole face to ensure quiet operation.

Operation :-

Compression spring provide the necessary working pressure to apply the brake, release being effected by a three phase electromagnet hand release lever is tilted to the lock brake in the off position when required. Requires regular maintenance and periodical replacement of worn part and coils.

Note:-

- 1) Brake type EMS 6 denotes A.C Three phase 6 inch Dia. (Inch series)
- 2) Brake type EMS 150 denotes A.C. Three phase 150mm Dia. (metric series)
- 3) Brake are made to suit either inch or metric drum size.
- 4) Coil are rated for operation 415/440 three phase A.C. 50 cycles.
- 5) Coils can be supplied with class 'B' insulation for operation at higher ambient temperature upto 60°
- 6) Tolerance ±2 mm.