

## Introduction

DC Electro-magnetic shoe brakes are actuated by an energy stored in the compression spring and is released by a DC electromagnet. Thus, the brake is fail-safe and is normally ON (applied). The DC magnet coil, when energized releases the brake.

This series of brakes are characterized by robust construction and design. These are specially suited for Steel Mills, Hoists and Elevators.

## Brake Selection

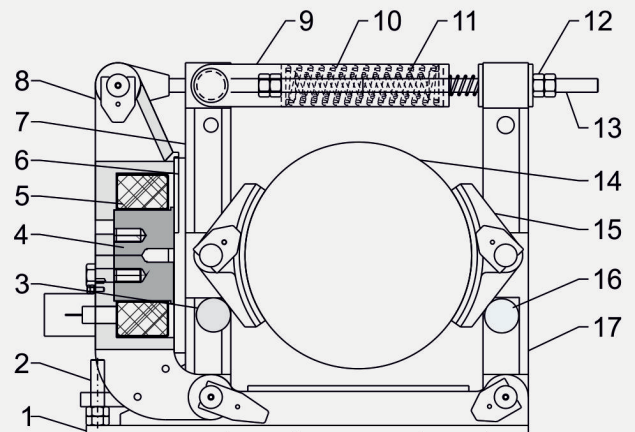
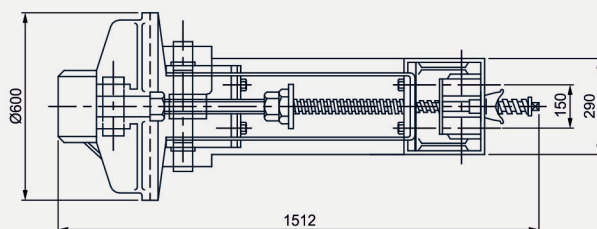
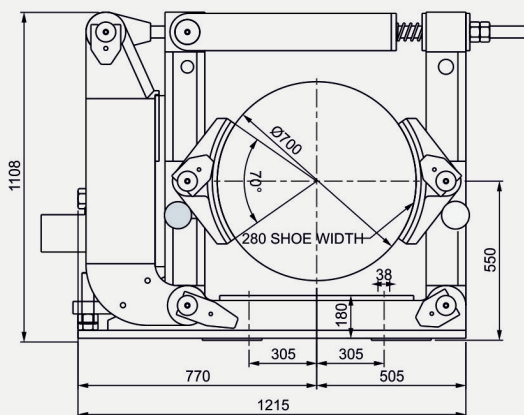
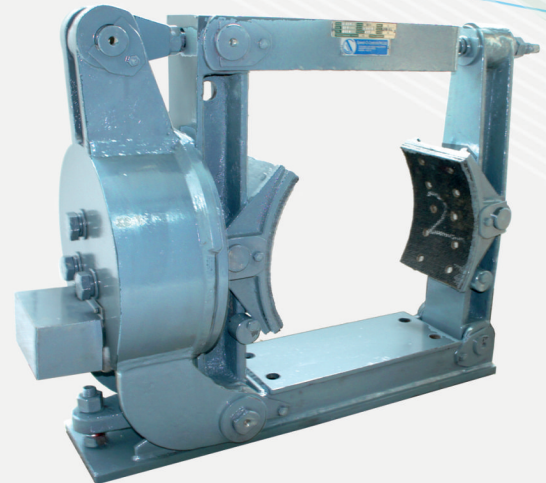
The braking torque is generally decided as a percentage of rated torque of the drive motor.

Rated torque of motor is given by

$$T = 716.2 \times (\text{HP} / \text{RPM}) \text{ kg-m.}$$

OR

$$M = 0.974 \times (\text{KW} / \text{RPM}) \text{ N-m}$$



- |                               |                               |
|-------------------------------|-------------------------------|
| (01) Base                     | (09) Fork                     |
| (02) Stopper Screw            | (10) Compression Spring-1     |
| (03) Main Arm Shoe adj. screw | (11) Compression Spring-2     |
| (04) Shoe hinge pin           | (12) Tie Rod Nuts             |
| (05) Magnet Coil              | (13) Tie Rod                  |
| (06) Armature                 | (14) Brake Drum               |
| (07) Main Arm                 | (15) Brake Shoe               |
| (08) Magnet Housing           | (16) Side Arm Shoe adj. screw |
|                               | (17) Side Arm                 |

Brake Model	Item code	Brake Drum (mm)	Braking Torque (kg-m)	Supply Volts At 50Hz (V)	*Mass (kg.)
DM-700	100900110001	700	575	415	960

Supply Voltage 380/480/550/690V available on request



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