INTRODUCTION

A Thruster Brake is a device designed to slow down moving machinery and bring it to a precise stop at the required position. The braking force is exerted on the brake shoes by a preloaded compression spring. These shoes press against the rotating drum, reducing its speed and ultimately bringing it to a halt.

Application:

Material Handling Cranes used in Steel Plants, Foundries, Forging Plants, Heavy Fabrication, etc.

Brake Selection Procedure

Brake Torque Calculation:

For most applications the brake toque must be equal to or greater than motor full load torque as referred to the drum/wheel shaft.

Thus, torque in Kg m = $\frac{974xKW}{}$

Where

KW Motor Output

rpm Revolution per minute

When torque requirements known and the type and the duly cycle established, the brake is selected accordingly from the selection table. For certain special application e.g. crane hoist and their overhauling loads, the brake should be capable of providing atleast 150% of motor torque.

TECHNICAL DATA:

Model : ST300-46 **Thruster** · ST-46 Drum Dia 300 mm **Braking Torque** : 78 Kg-m Thrust : 46 Kg Stroke : 51 mm

: Transformer Oil - Grade BS:148 Recommended Oil

Oil Capacity : 2.4 Ltrs.

Operating Voltage : 415v±10%, 3 Phase AC, 50Hz

Power Consumption : 0.50 Amps Input Watts 180 Watts Insulation of Thruster : FClass : 600V Insulation Voltage Protection : IP 54

: Asbestos Free Shoe Liner Shoe Width 140 mm

Optional:

- Manual release mechanism with lever
- Limit Switch













