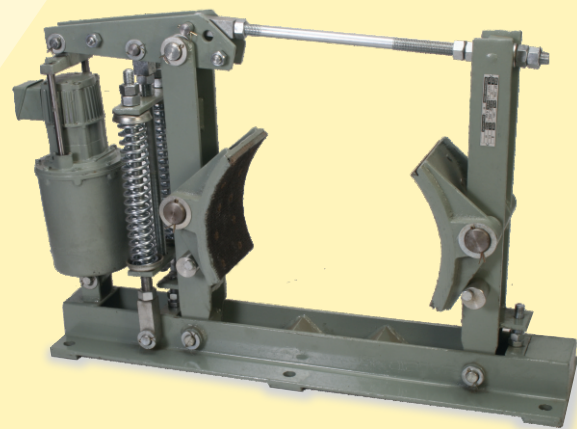


MDT 500-34 (MILL DUTY THRUSTER BRAKES)



Introduction

Thruster Brake is a device to retard the speed of moving machinery and to stop it accurately to the desired position. The breaking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum retarding its speed, and finally stopping it.



Technical Data

Item	Brake	Thruster
Model	MDT - 500-34	ST-535
Drum Dia	500 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	110 Kg-m	-
Thrust	-	34Kg
Stroke	-	50mm
Oil + Capacity	-	Transformer Oil 2.5 Litrs
Rated Voltage	-	415V ±10%, 3Ph AC, 50Hz
Current At 415 V AC	-	0.5 Amps
Insulation	-	F Class
Ingress Protection	-	IP-55 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	90 kg	16 kg
Painting	Colour RAL 7021	

Selection of Brake Size

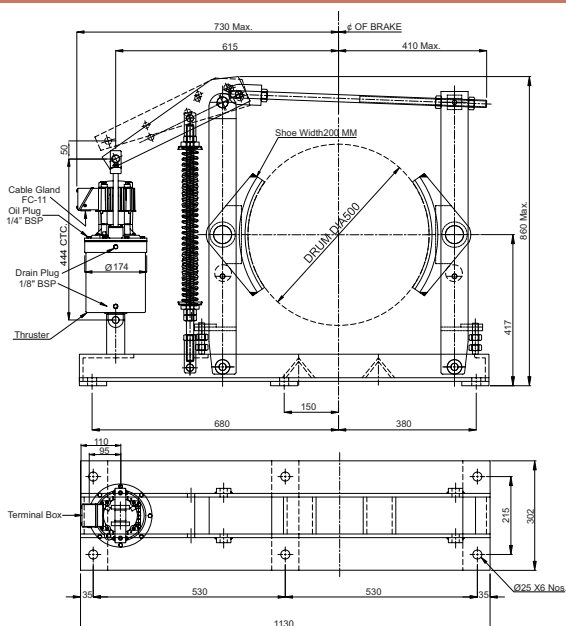
Electo-hydraulic thruster is a device which develops linear thrust (or force) required to operate the required mechanism. The input to the device is three phase supply.

The brake torque must be = > than motor full load as referred with drum. Formula as below:

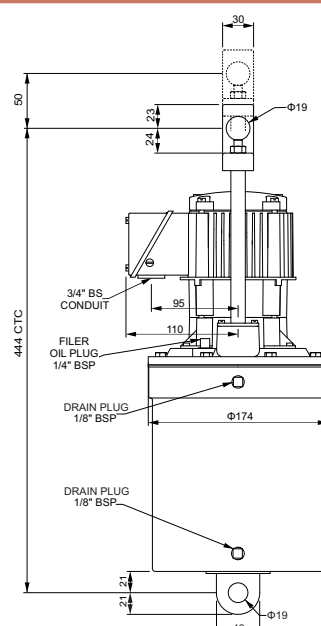
$$T = \text{Torque in Kgm} = \frac{716 \times \text{Hp}}{\text{rpm}}$$

$$T = \text{Torque in Nm} = \frac{9552 \times \text{Kw}}{\text{rpm}}$$

Where Hp/Kw = motor output & rpm = Rev/minute



MDT-500-34



ST-535