# MDT 500-46 (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

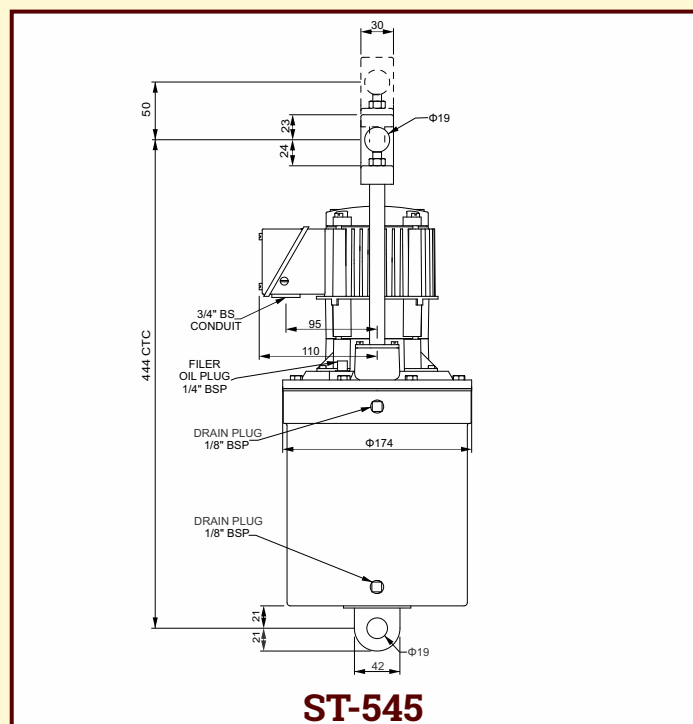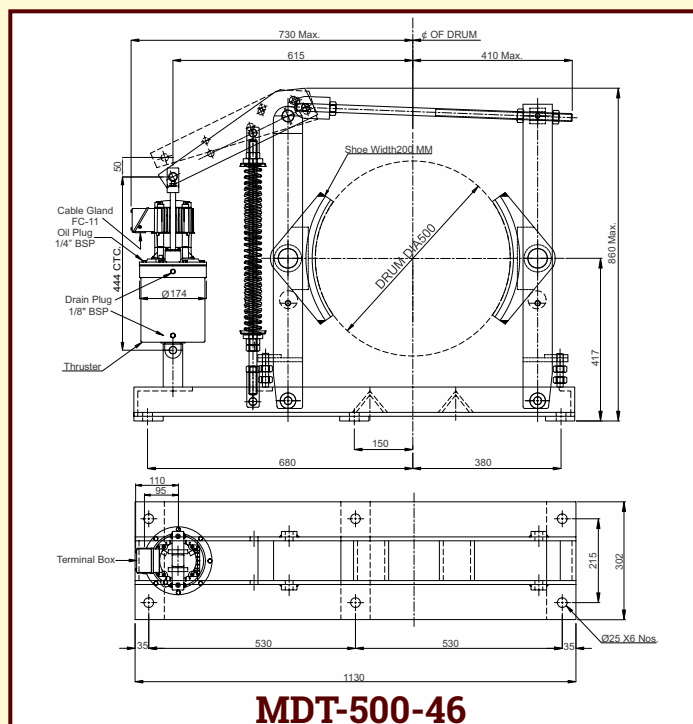| ITEM	BRAKE	THRUSTER
MODEL	MDT - 500-46	ST- 545
DRUM DIA	500 mm	....
BRAKE SHOE	Asbestos free/BA	....
BRAKING TORQUE	190 Kg-m	....
THRUST	....	46 Kg
STROKE	....	50 mm
OIL + CAPACITY	....	Transformer Oil 3 Litrs
RATED VOLTAGE	....	415V±10%,3PhAC,50Hz
CURRENT AT 415 V AC	....	0.6 Amps
POWER	....	180 Watt
INSULATION	....	F Class
INGRESS PROTECTION	....	IP-55 IS/IEC 60529(2001)
SURFACE TEMPERATURE	....	+50°C
WEIGHT	111 kg	16 kg
POWDER COATING	Colour RAL 7021	
OPTION		
LAF	Asbestos Free Liner	
LWI	Lining Wear Indicator	
OL	Open Brake Limit Switch	
MS	Manual Opening & Locking System	
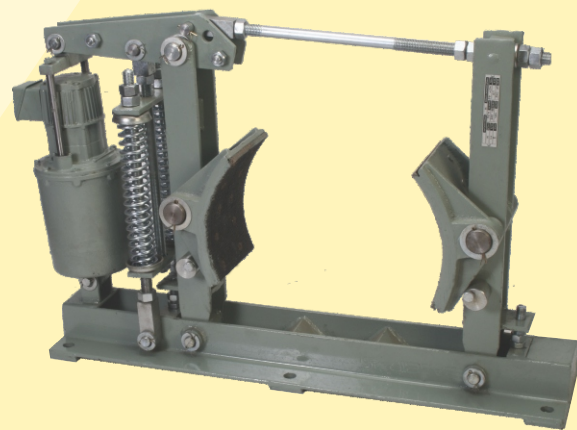
SELECTION OF BRAKE SIZE

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:

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

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

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

MDT-500-46

ST-545