## MDT 500-34 (MILL DUTY THRUSTER BRAKES)

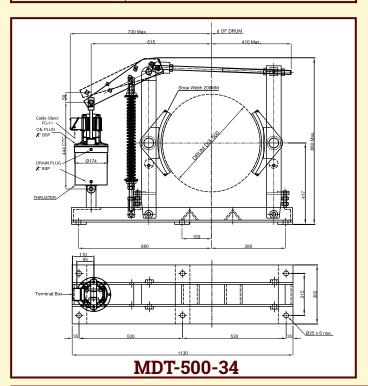


## INTRODUCTION

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		34 Kg
STROKE		50 mm
OIL + CAPACITY		Transformer Oil 3 Litrs
RATED VOLTAGE		415V±10%,3PhAC,50Hz
CURRENT AT 415 V AC		0.5 Amps
POWER		150 Watt
INSULATION		F Class
INGRESS PROTECTION		IP-55 IS/IEC 60529(2001)
SURFACE TEMPERATURE		+50°C
WEIGHT	90 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**

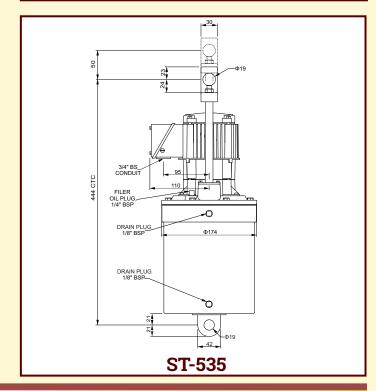
Electo-hydraulic thruster is a device which develops linear thrust (or force) required to operate the required mechanism. The input to the device is three phase supply.

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

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

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

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



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