

MDT 500-114 (MILL DUTY THRUSTER BRAKES)

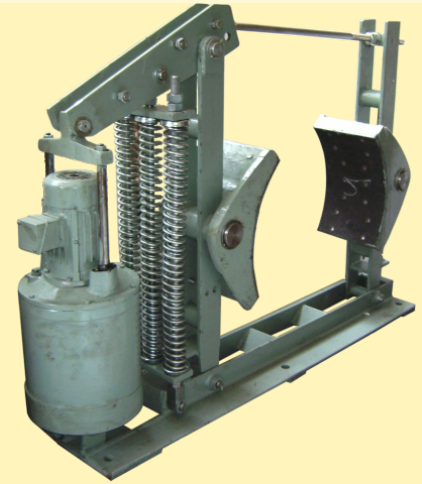


INTRODUCTION

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 - 500-114	ST 8110
DRUM DIA	500 mm	.....
BRAKE SHOE	Asbestos free/BA	.....
BRAKING TORQUE	485 Kg-m	.....
THRUST	.....	114 Kg
STROKE	.....	76 mm
OIL + CAPACITY	.....	Transformer Oil 5 Litrs
RATED VOLTAGE	.....	415V±10%,3PhAC,50Hz
CURRENT AT 415 V AC	.....	0.8 Amps
POWER	.....	250 Watt
INSULATION	.....	F Class
INGRESS PROTECTION	.....	IP-55 IS/IEC 60529(2001)
SURFACE TEMPERATURE	.....	+50°C
WEIGHT	111 kg	34 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

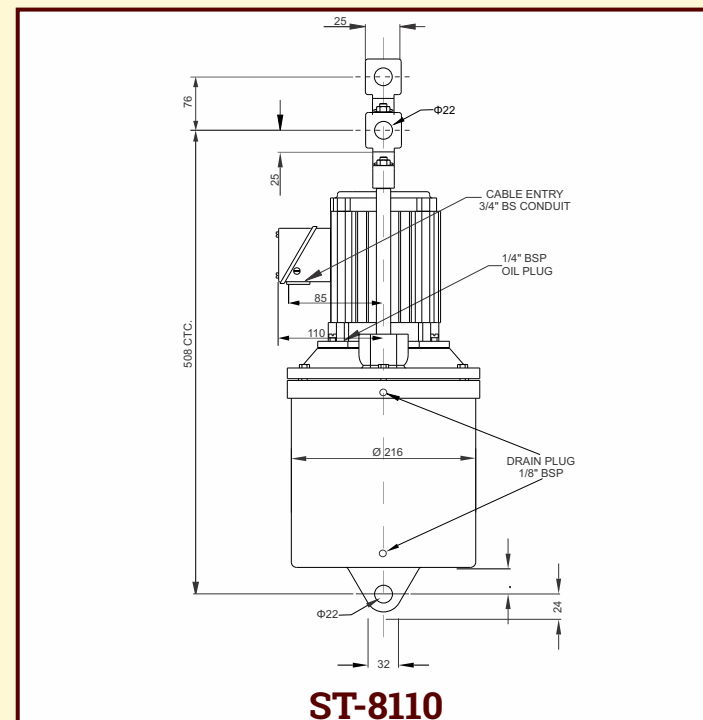
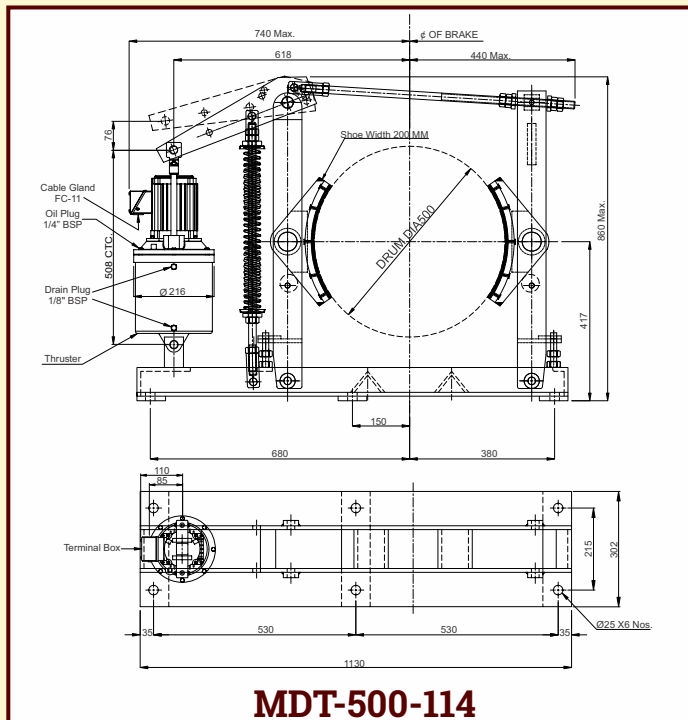
Electo-hydraulic thruster is a device which develops linear thrust (or force) required to operate the required mechanism. The input to the device is three phase supply.

The brake torque must be \geq 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



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