

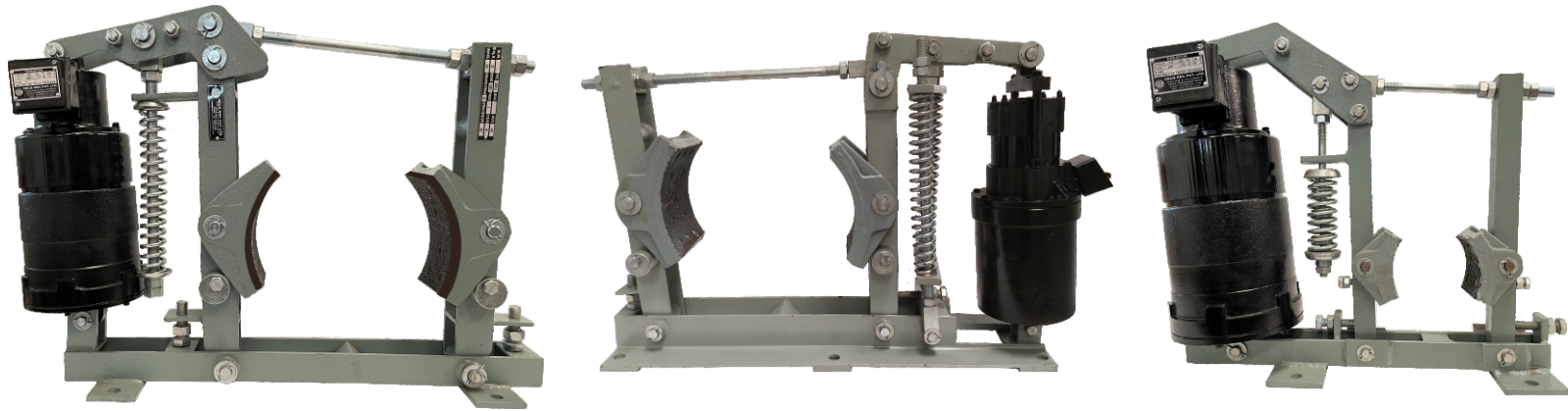
# DEUS RRC PVT. LTD.



*Leading manufacturer of SNT Radio Remote Control Systems & other Crane Control Equipments.*

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# Thruster Brakes Mill Duty MDT 100mm - 400mm



## Introduction

*Thruster Brake is a device used to retard the speed and to hold the moving machinery when it is stationary. The braking force to the shoes is applied through the spring by means of lever/rod mechanism. The shoes are moved clear off the drum again through lever/arm linkage mechanism by thruster which overcomes spring force.*

## CONSTRUCTION:

- 1. **Base/Arms:** Rigid welded construction with accessible fixing.*
- 2. **Shoes:** Self-aligning, easily removable high grade cast iron fitted with best quantity fabric linings.  
Large cooling surface*
- 3. **The Rod/Guide Rode:** Large section securely fixed in a lug. The tie rod transmits the spring force on the shoes by a simple lever system.*
- 4. **Springs:** Compression springs are vertically mounted through the guide rods and are held securely between guide plates. One or more springs are used depending upon the brake size and thruster capacity to obtain the desired braking torque.*

*The **Related Motor Torque** is given by :*

$$T = \frac{716.2 \times \text{HP}}{\text{RPM}} \quad \text{OR} \quad \frac{9.25 \times \text{KW}}{\text{RPM}}$$

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**ELECTRO HYDRAULIC THRUSTER BRAKE COMPLETE CHART :**

Drum Dia D in mm	100	150	200	250	300	200	250	300	400	400
A	235	265	360	355	430	360	355	430	503	503
B	165	195	215	240	285	215	240	285	360	360
C	70	70	88	100	140	88	100	140	180	180
h	125	125	200	225	275	230	225	275	310	310
H	415	415	513	563	600	513	563	600	650	650
J	130	130	150	160	205	150	160	205	236	236
L	420	465	600	640	750	580	640	750	955	955
K	100	100	125	125	145	125	125	145	180	180
E	150	150	360	305	460	360	305	460	508	508
F	-	-	-	-	105	-	-	105	65	65
G	100	100	170	185	250	170	185	250	377	377
M	14	14	14	18	20	14	18	20	20	20
Thruster Capacity (Kg)	18	18	18	18	18	34	34	34	34	68
Braking Torque (Kg-m)	6	9	20	35	42	32	42	62	90	170

**TORQUE RATING**

Brake Type	Drum Diameter (mm)	Thruster Capacity (Kgs)	Thruster Stroke (mm)	Braking Torque (Kg-M)
MDT 100-18	100	18	51	6
MDT 160-18	160	18	51	9
MDT 200-18	200	18	51	20
MDT 200-34	200	34	51	32
MDT 250-18	250	18	51	35
MDT 250-34	250	34	51	42
MDT 300-18	300	18	51	42
MDT 300-34	300	34	51	62
MDT 400-34	400	34	51	90
MDT 400-46	400	46	51	110
MDT 400-68	400	68	76	170

