**Design Features**

Actuator can be installed horizontally for industrial vertical motor applications such as slewing
Simple adjustment of the ample air gap between the brake pads and the disc
Sintered metal, asbestos free pads for all applications
Enclosed, adjustable brake spring with torque scale
3-phase AC Thruster actuator for brake release
Self-lubricating bushings used at all pivot points
Stainless steel spindles used throughout for corrosion protection
All component parts designed for maximum durability
Brake speeds comparable to magnetic brakes
Two position manual release mechanism

**Automatic Centering Device**

Hillmar’s M Series Thruster Disc Brakes use a unique mechanism to ensure that the friction linings lift off equally on either side of the disc regardless of lining wear. The twin brake levers are synchronized by a simple mechanism that ensures that they move equally. Although some other brakes use synchronization to accomplish equal pad lift off, the Hillmar device is unique in that it can be easily adjusted after brake installation. With other brakes the entire brake mechanism must be shifted side to side to set the initial friction lining to disc clearance. With Hillmar TDB Series brakes, the brake can remain bolted in place and final precision centering can be accomplished by adjusting the simple mechanism. No further adjustments need to be made until the friction linings are fully worn and replaced.

**CAPACITY CHART**

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Brakes are only as safe as the servicing and maintenance performed on them while they are in operation. With a substantial number of disc brake installations throughout the world, our comprehensive parts and service organization is always available to ensure the safe, reliable and precise functioning of our TDB Series of Thruster Disc Brakes.

**Available Options**
- Automatic wear compensator
- Limit switch to indicate lining wear
- Break release limit switch
- Thruster position limit switch
- Manual release limit switch
- Disc and/or hubs (see coupling brochure)
- Long stroke actuators for special applications
- Brake lining temperature sensors
- VSR electronic brake monitoring system
- Self-centering mechanism

The Hillmar TDB Series thruster disc brakes are powered by the Hillmar ES Series Thruster Actuators. The ES Series Actuator was designed by Hillmar's highly skilled engineering staff. Thruster Actuators have become the device of choice for the reliability of brakes. Our thruster have more capacity and provide better performance than any other thrusters on the market today. The ES Series Thruster is AC driven and is available in any voltage configuration required. All thrusters are thoroughly inspected and tested to the highest of quality standards.

**Applications**

**High Duty Cycle Operation on equipment such as:**
- Container Cranes
- Stacker reclaimers
- Gantry cranes
- Hoists
- Ship unloaders
- Portal cranes
- Conveyors
- Winches

Hillmar will, upon request, supply detailed data sheets to obtain necessary specific sizing information and make the appropriate product recommendations. Hillmar has a full range of spare parts in Inventory. A complete set of O & M manuals are supplied with all products.

All M Series TDB’s are powered by the Hillmar ES Series thrusters.
STORM BRAKES
Rail Clamps
Rail Brakes
Rocker Rail Brakes
Wheel Brakes
Thruster Wheel Chocks
Thruster Rail Brakes

THRUSTER DISC BRAKES
Series 16
Series 23
Series 28
Series 37
Couplings
Solenoid Disc Brakes

THRUSTERS
ES Series 025
ES Series 050
ES Series 121
ES Series 301
ES Series 030
ES Series 080
ES SERIES
ES Series 201
ES Series 401

INDUSTRIAL DISC BRAKES
HSV 200 Series
HSV 300 Series
HSV 5000 Series
HSV 3000 Series
HSV SERIES
HC 150 Series
HC 240 Series
HC 6000 Series
HC 6000 Series

HYDRAULIC POWER UNITS
HPT 10 – RC Series
HPT 10 – Series
HPT 30 – RP Series
HPT 50 – RP Series

CABLE REELS
Cable Reels
High Speed Reels
Lift & Store Reels
Fibre Optic Rotary Joint
Cable and Hose Guides
Gear Boxes
Magnetic Eddy Drives

Represented by:

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