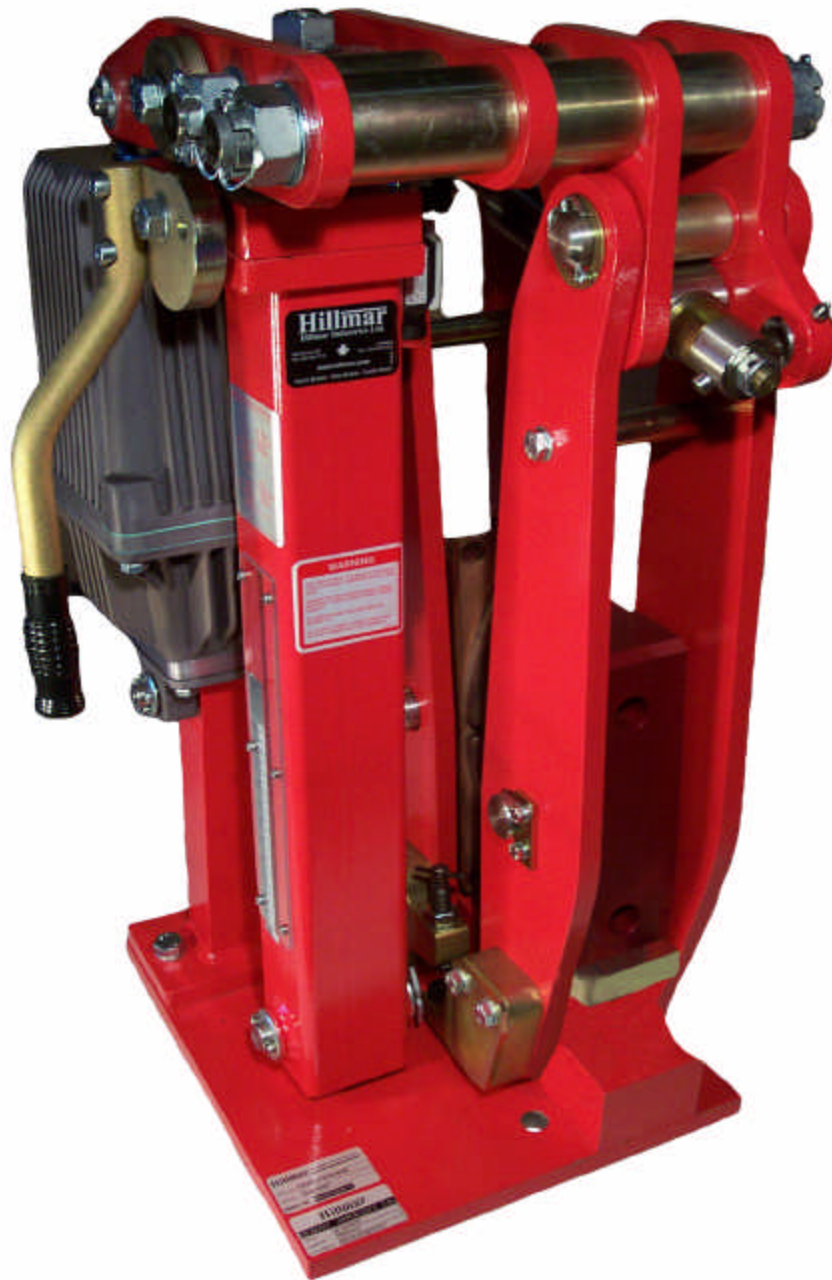


THRUSTER DISC BRAKES – M SERIES



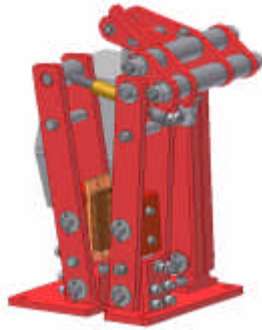
Hillmar

7371 Vantage Way
Delta, B.C. Canada V4G 1C9

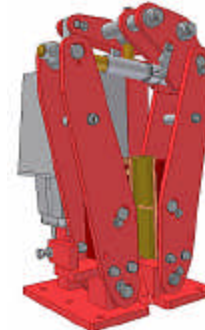
Tel: +1-604-946-7115
Fax: +1-604-946-0329

info@hillmar.com
www.hillmar.com

THRUSTER DISC BRAKES – M SERIES



M16 Series



M23 Series

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.

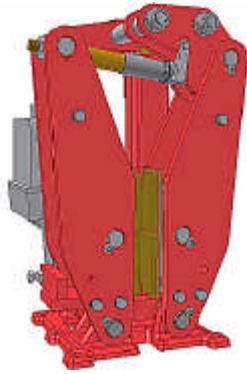


Self Centering Mechanism

CAPACITY CHART

BRAKING TORQUE, $\mu=0.4$								
DISC Ø	TDB-M16 ES-25	TDB-M16 ES-30	TDB-M23 ES-50	TDB-M23 ES-80	TDB-M28 ES-121	TDB-M28 ES-201	TDB-M28 ES-301	TDB-M37 ES-401
mm	Nm							
250	200	270						
280	230	310						
315	260	355						
355	300	410	935					
400	345	470	1085	1600				
450	395	540	1255	1850	2700			
500	445	610	1425	2100	3100			
560			1630	2400	3550	5750		
630			1870	2750	4100	6600	9700	15000
710					4700	7600	11200	17400
800					5400	8800	12800	20100
900							14700	23100
1000							16500	26100
1250							21100	33600

THRUSTER DISC BRAKES – M SERIES



M28 Series

Quality and Service

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

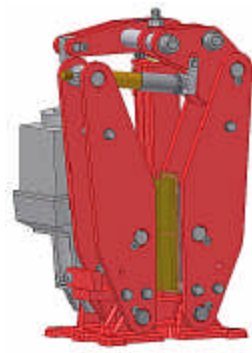
- Automatic wear compensator
- Limit switch to indicate lining wear
- Break release limit switch
- Thruster position limit switch
- Manual release limit switch
- Disc and/or hubs (see coupling brochure)
- Long stroke actuators for special applications
- Brake lining temperature sensors
- VSR electronic 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 thrusters 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.



M37 Series

Applications

High Duty Cycle Operation on equipment such as:

Container Cranes	Ship unloaders
Stacker reclaimers	Portal cranes
Gantry cranes	Conveyors
Hoists	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



Rail Clamps



Rail Brakes

THRUSTER DISC BRAKES

Series 16
 Series 23
 Series 28
 Series 37
 Couplings
 Solenoid Disc Brakes



Thruster Disc Brakes



Couplings & Discs

THRUSTERS

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



Thrusters



INDUSTRIAL DISC BRAKES

HSV 200 Series
 HSV 300 Series
 HSV 3000 Series HSV SERIES
 HSV 5000 Series
 HCB 150 Series
 HCB 240 Series HCB SERIES
 HCB 6000 Series



Industrial Disc Brakes



Industrial Disc Brakes

HYDRAULIC POWER UNITS

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



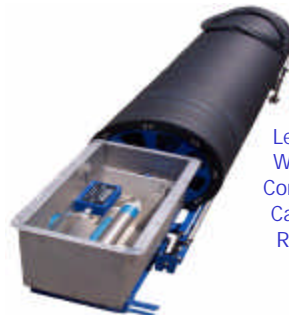
Hydraulic Power Unit
 Stainless Steel Series
 With Enclosure



Hydraulic Power Unit
 Stainless Steel Series
 No Enclosure

CABLE REELS

Cable Reels	Hose Reels
High Speed Reels	Level Wind Reels
Lift & Store Reels	Vertical Column Slings
Fibre Optic Rotary Joint	Magnetic Coupling Drives
Cable and Hose Guides	Anchoring Equipment
Gear Boxes	Slip Ring and Enclosure
Magnetic Eddy Drives	



Level Wind Control Cable Reel



Cable Reel Lift & Store System

Represented by:

Hillmar

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