

Storm Brakes

Rail Clamps
Rail Brakes
Rocker Rail Brakes
Wheel Brakes
Thruster Wheel Chocks
Thruster Rail Brakes



Rail Clamps



Rail Brakes

Thruster Disc Brakes

M16 Series	PKM Series	Series Couplings
M23 Series	GKM Series	Series Couplings
M28 Series	RKM Series	Series Couplings
M37 Series	RKSM Series	Series Couplings
HSB Series	SD Series	Series Discs



Thruster Disc Brakes



Couplings & Discs

Thrusters

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



Thrusters



Industrial Disc Brakes

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



Industrial Disc Brakes



Hydraulic Power Units

HPT 10 RC Series	Series
HPT 10 Series	Series
HPT 30 Series	Series
HPT 50 Series	Series
PU 6 Series	Series



Hydraulic Power Unit Stainless Steel Series with Enclosure



Hydraulic Power Unit Stainless Steel Series without Enclosure

Cable Reels

Cable Reels	Magnetic Coupling Drives
Hose Reels	Magnetic Eddy Drives
High Speed Reels	Cable & Hose Guides
Level Wind Reels	Gear Boxes
Lift & Store Reels	Sliprings & Enclosures
Vertical Column Slip Rings	Anchoring Equipment
Fibre Optic Rotary Joints	



Level Wind Control Cable Reel



Cable Reel Lift & Store System



RAIL CLAMPS - CTHV / CBHV SERIES



Design Features

A vertical and horizontal float mechanism maximizes performance by ensuring the shoes are always in correct geometry with the rail. Guide wheels allow the mechanism to follow the rail deviations and still provide protection to the brake shoes.

A field replaceable mechanism and hydraulic cylinder allows for total inspection and servicing without removing the clamp enclosure.

External grease fittings are provided for easy maintenance.

A spring caging fork locks the rail clamp in the open position for easy field maintenance.

A visual indicator bar is provided to make toggle adjustment easy in the event of pad wear as well as showing the operating position of clamp.

A flow control valve is provided to regulate clamp setting time.

SAE O-ring oil ports eliminate oil leaks.

An integral hand pump is available for easy manual release.

Electrical components are pre-wired to a centrally located electrical junction box.

Field replaceable serrated brake shoes simplify maintenance and minimize downtime.

Modular design and removable enclosure cover provides complete open access for ease of maintenance.

Stainless steel accessories include enclosure cover, hydraulic reservoir, fasteners, brackets and spring cover.

Mechanical counter installed on RC for monitoring the number of cycles and to determine the maintenance schedule.



CTHV / CBHV - Hydraulic Rail Clamps demonstrating the modular design feature

Typical Applications

Hillmar Rail Clamps can be utilized on:

- | | |
|------------------|-------------------|
| Container Cranes | Ship Unloaders |
| Ship Loaders | Stackers |
| Reclaimers | Conveyor Trippers |
| Bridge Cranes | Gantry Cranes |

And several other types of rail mounted equipment.

Available Options

Rail packages to suit various types of rail sections. Truck Mount (CTHV) or Beam Mount (CBHV) Rail Clamps for various applications.

Remote Mount Hydraulic Power Units are available with a stainless steel tank.

Hose and fittings installation kits are available for Remote Mount Hydraulic Power Units.

Available in all power and control voltages.

A full range of spare parts are available.

Custom paint to RAL, BS and several other international paint standards.

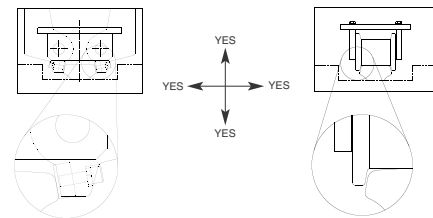
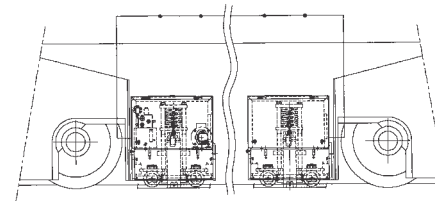


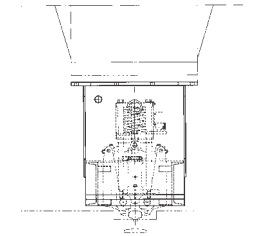
Fig 1 Floating Mechanism Feature & Guide Wheel Design

The Horizontal and Vertical Float assures consistent braking and eliminates excessive wear on your rails. A custom made rail package will help prolong your rail life.

Typical Arrangements



CTHV LE Series/ RP Series – Truck Mount
Installed on Crane Truck complete with Integral Power Unit



CBHV RP Series – Beam Mount
Installed on Sill Beam Extension complete with an External Hydraulic Power Unit

Principle of Operation

Rail Clamps can be **Beam** mounted or **Truck** mounted as shown above. The principle in which they operate is easily explained through the two diagrams below:

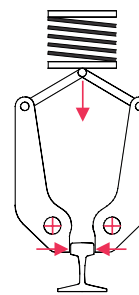


Fig. 2 - Basic Principle

(Fig. 2) The Rail Clamp is spring "Set" by a spring or set of springs placing force on a toggle assembly. The Rail Clamp then can be "Released" hydraulically by a cylinder which is activated by a Hydraulic Power Unit.

(Fig. 3) The Rail Clamp provides premium braking power which is due to a consistent brake alignment to the rail. This is maintained by Hillmar's **Horizontal and Vertical Float design and Guide Wheel feature.** (Fig. 1)

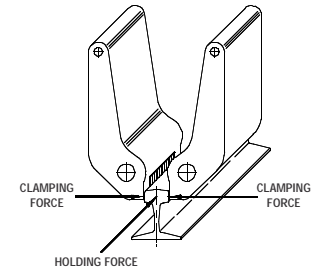


Fig. 3 - Rail Clamp Force Technology

Storm Brake Rail Clamp Series

- | | | | |
|-------------------------|-------------------------|-------------------------|-------------------------|
| CTHV-045-LE | CTHV-045-RP | CBHV-045-LE | CBHV-045-RP |
| CTHV-013/017/025-045-LE | CTHV-013/017/025-045-RP | CBHV-013/017/025-045-LE | CBHV-013/017/025-045-RP |
| CTHV-035/050-045-LE | CTHV-035/050-045-RP | CBHV-035/050-045-LE | CBHV-035/050-045-RP |
| CTHV-075/100-045-LE | CTHV-075/100-045-RP | CBHV-075/100-045-LE | CBHV-075/100-045-RP |
| CTHV-150-045-LE | CTHV-150-045-RP | | |
| CTHV-025-WLE | CTHV-025-WRP | CTMV-045 | |
| CTHV-075/100-025-LE | CTHV-075/100-025-RP | CTMV-013/017/025-045 | |
| | | CTMV-035/050-045 | |
| | | CTMV-075/100-045 | |

Legend

- | | | |
|-----------------------------------|-----------------|---------------------------------------------|
| T - Truck Mounted | B - Beam Mount | LE - Enclosed Power Unit |
| RP - Remote Power Unit | W - Wedge Style | M - Manually Released |
| 025/045 - Coefficient of Friction | | 013/017/025 x 1000 = Holding Capacity (LBS) |