

RAIL CLAMPS – CTHV / CBHV SERIES



Storm Brakes – 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.

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.



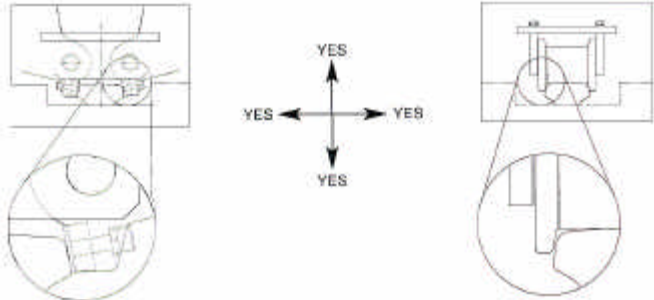
CTHV / CBHV - Hydraulic Rail Clamps
Demonstrating the modular design feature

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.



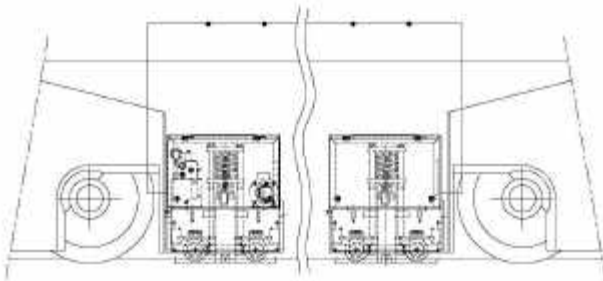
THE FLOATING MECHANISM FEATURE

The horizontal and vertical float assures consistent breaking and eliminates excessive wear on your rails.

A custom made rail package will help prolong your rail life.

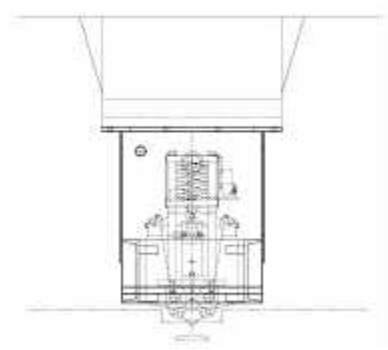
Storm Brakes – CTHV / CBHV SERIES

Typical Arrangements



CTHV RC 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 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:

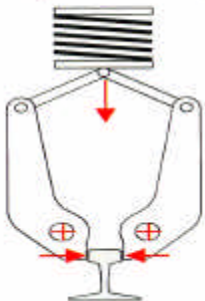


Fig. 1 - Basic Principle

(Fig. 1) 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. 2) The Rail Clamp provides premium braking power which is due to a consistent brake alignment to the rail. This is maintained by SBC's **Horizontal and Vertical Float design feature**.

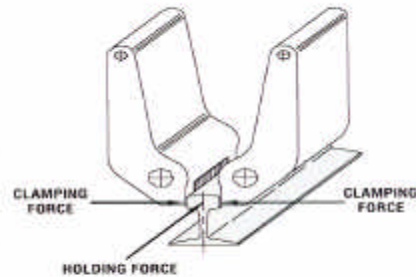


Fig. 2 - Rail Clamp Force Technology

Storm Brake 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-030/050-045- LE	CTHV- 030/050-045- RP	CBHV- 030/050-045- LE	CBHV- 030/050-045- 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- W - LE	CTHV – 025- W - RP	CTMV-045	
CTHV- 075/100-025- LE	CTHV-075/100-025- RP	CTMV-013/017/025-045	
		CTMV- 030/050-045	
		CTMV- 075/100-045	

LEGEND:

T – Truck Mount

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

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



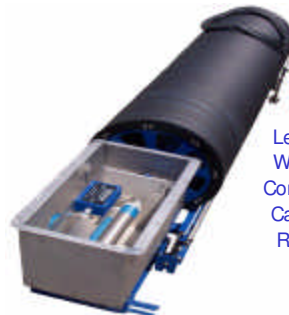
Hydraulic Power Unit
Stainless Steel Series
With Enclosure



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

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