

FEATURES AND BENEFITS

GRC Guided Rail Clamps

BRELX Rail Clamps are spring set, hydraulic release storm brakes. Classic toggle style mechanism pushes robust leavers with serrated shoes which apply on both sides of a rail. Our rail clamps come in several sizes with braking forces in a range from 50 kN to 600 kN.

MOST IMPORTANT FEATURES

- Low friction Hardened Plain Rollers without flanges support mechanism and ride on the top of rail.
- Mechanism weight is evenly distributed on four low friction bearings guided on a channel bar at the top of the rail clamp. This allows the mechanism to be top supported and float laterally with ease.
- For horizontal float, we supply hardened guides that attach to the guide roller frame. Because our clamp mechanism can float laterally and with minimum tilting, there should be a minimum wear.
- The guide frames will also act as final plows.
- The whole assembly can be lifted out with the roller assembly for ease of maintenance.
- Rail clamp shoes retract and are protected from hitting the side of a rail during crane traversing.
- No Float Block & Guide Bar for guiding the mechanism. This eliminates the possibility of mechanism jamming.
- No need for lubrication points for floating mechanism.
- Robust levers made out of quality structural steel (not casted iron)
- Horizontal ± 30 mm and Vertical ± 30 mm compensation allowance by a floating mechanism (more can be available upon request).
- The hydraulic cylinder is top mounted with no rod connections and can be easily removed for maintenance or replacement in minutes by undoing four bolts.
- Uninterrupted braking even during a cylinder replacement
- Powder coated Coil springs
- Coil springs do not need additional protection for maintenance personnel safety.
- Modular design for clamping mechanism to be under same enclosure with the power unit.
- Stainless Steel removable cover with hinged inspection doors located on both sides of a rail clamp.
- Simple, reliable and corrosion resistant door locks.
- Rail clamps can be hydraulic released with hand pump if power is not available.
- Caging bolts provided to allow caging of rail clamps in open position (released).
- Mechanical release by caging bolts in case of hydraulics failure.
- Clamp release status monitored by IFM Fail-Safe Proximity Switch
- Labels for Visual indication of Rail Clamp released status.
- Labels for Visual indication of Rail Clamp set status.
- Labels for Visual indication of Rail Clamp serrated shoe wear status.
- Labels for Visual indication of Rail Clamp "Maintenance Position" for quick and safe serrated shoe removal.
- Shoe replaceable in field without brake removal from the crane (mechanism is caged at "Shoe Replacement" position).
- Controlled setting time by a flow control valve (adjustable from 2 to 30 sec).
- CSA, UL, CE approved components.
- Rail Clamp performance is witnessed by a reputable third party inspection company.