

RAIL CLAMPS

RRC-ES-XXX-050-SF/TF

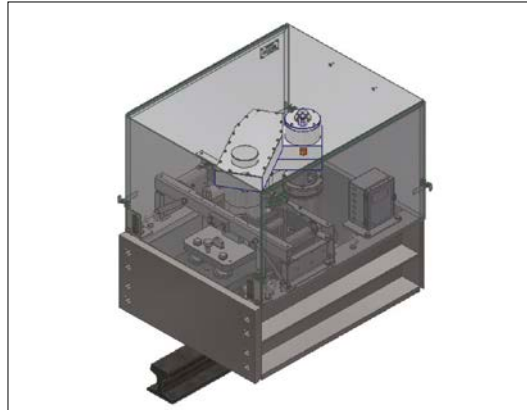
RRC ES RETRACTABLE RAIL CLAMPS – ELECTRIC - SIDE FLANGE AND TOP FLANGE MOUNT

The Rail Clamps are designed to release and retract completely from the rail head, with no mechanical guiding means at the rail level. Serrated shoes are fully protected from hitting the sides of the rails, which contributes to minimal wear and tear. There is no wear and tear to the guide means or to the rail head itself.

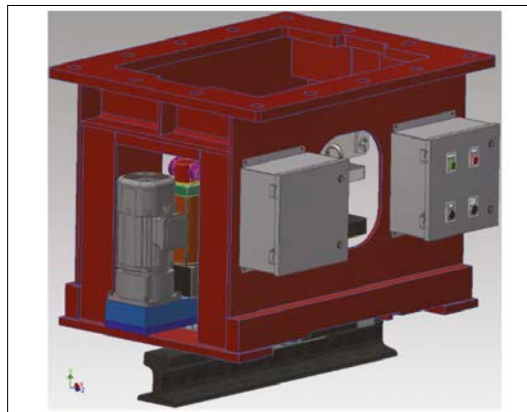
Additionally, the effect of the vibrations on the rail clamp mechanism during crane travel is minimized. When in the set position, they provide a designed holding force (capacity) rated at $\mu=0.5$ coefficient of friction.

AVAILABLE HOLDING CAPACITIES

- RRC-ES-SF from 50 kN to 700 kN (SF Side Flange mounting)
- RRC-ES-TF from 50 kN to 700 kN (TF Top Flange mounting)



RRC-ES-xxx-050-SF
Side flange model



RRC-ES-xxx-050-TF
Top flange model



Rail Clamps

RRC-ES-XXX-050-SF/TF

KEY FEATURES

- Spring set – Electric release
- Rail Clamp shoes retract completely above the rail head when in a released position, no mechanical guiding means at the rail level.
- Mechanism weight is evenly distributed on four low friction bearings guided on a channel bar at the top of the rail clamp. Low friction mechanism stability device allows for the reliable positioning on the rail and setting of the rail clamp mechanism.
- Top suspended mechanism allows for very low mechanism float forces, no need for lubrication points.
- Serrated shoes protected from hitting the rail sides, no wear and tear to guide means, brake shoes, or rail head itself.
- Release of the serrated shoes and mechanism retraction done with a single, top-mounted electric linear actuator.
- Top-mounted electric actuator, easily removable for quick maintenance and replacement.
- Mechanism compensates force loss as springs extend due to variations in rail head width, providing a constant designed clamping/holding force.
- Mechanism caging bolts in released position for maintenance safety.
- Rail clamp mounted on the crane by a Side Flange.
- In case of power loss, rail clamp sets on the rail within pre-set delay time, mechanically adjustable at the site (10 – 30 sec).
- Marine grade C4 paint system for superior corrosion protection.
- Stainless steel removable cover with the inspection doors located on both sides of a rail clamp (Side Flange mount model).
- Top Flange model has inspection and maintenance doors located on both sides of a rail clamp.
- Inspection doors with high quality rubber door latches (jeep style) and weatherproof strips.
- Horizontal Float: $\pm 30\text{mm}$
- Vertical Float: $\pm 25\text{ mm}$
- Clamp release LS1, positioning on the rail for proper shoe to rail engagement LS2, and reserve stroke (out of adjustment) LS3 monitored by IFM proximity switches.
- Electric linear actuator installed inside of the rail clamp (integral unit).
- Rail Clamp Release Time: Up to 6-8 seconds nominal.
- Means for mechanical release in case of power loss.
- Prewired Junction box.
- Warranty 12 months from commissioning or 18 months from shipping.

NOTE: Equipment controls and integration into crane's PLC – by others. Existing PLC loop time latency to be verified

SHIPPING INFORMATION SF MODEL

HS CODE	EQUIPMENT	Pcs in crate	Number of crates	L (cm)	W (cm)	H (cm)	Gross Weight per crate (kg)
8431.49.1010	RRC-ES-200-050-SF	2	1	175	110	110	1300

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The proper selection and application of products and components, including assuring that the product is safe for its intended use, are the responsibility of the customer. To view our Application Considerations, please visit <https://www.regalrexnord.com/Application-Considerations>.

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