



INSTALLATION INSTRUCTIONS

MHK-RT TUBULAR RAIL MOUNTING BRACKET KIT

PRODUCT	APPLICATION	BRACKET TYPE	REVISION
MHK-RT	Tubular / Rounded Rail Mounting	Bolt-On / Weld-Free	Rev. 01

1. PRODUCT APPLICATION

The MHK-RT is a bolt-on, weld-free tubular rail mounting bracket kit intended to provide a secure mounting interface for compatible poles, lighting equipment, instruments, and other approved equipment on tubular or rounded industrial rails. The bracket family is documented for handrail, stair and walkway rail applications.

2. SAFETY & PRE-INSTALLATION REQUIREMENTS

- Read all instructions and applicable project requirements before installation.
- Verify that the rail, mounting location, bracket, fasteners, and supported equipment are suitable for the intended load and environment.
- Do not modify, drill, weld, cut, or otherwise alter the bracket or supplied hardware unless specifically approved by the project engineer/manufacturer.
- For electrical installations, de-energize circuits before installation and follow all applicable electrical codes.
- Use appropriate fall protection and job-site safety procedures when working on elevated walkways, stairs, platforms, or handrails.
- Use two qualified installers when positioning or securing heavy equipment or pole assemblies.

3. KIT COMPONENTS

COMPONENT	DESCRIPTION
(2) Mounting Brackets	Bracket plates used to secure the supported assembly to the tubular rail.
U-Bolts	U-bolts sized for the applicable rail/pole configuration; verify supplied size before installation.
Flat Washers	Installed under applicable nuts.
Split Lock Washers	Installed as supplied with the kit where specified.
Hex Nuts	Used to secure the U-bolts to the mounting brackets.

4. INSTALLATION PROCEDURE

- 1. Inspect components** — Confirm that all brackets and hardware are present, undamaged, and appropriate for the intended tubular rail. Do not install damaged or deformed components.
- 2. Verify mounting location** — Select a structurally suitable section of tubular/rounded rail. Confirm the rail can support the bracketed equipment and any applicable wind, vibration, impact, or service loads.
- 3. Position the brackets** — Place the two mounting brackets around the tubular rail at the required spacing and orientation for the equipment or pole being mounted. Keep the brackets aligned with one another.
- 4. Install the U-bolts** — Pass the appropriate U-bolts around the rail and through the bracket holes. Install flat washers, split washers, and hex nuts in the supplied sequence.
- 5. Hand-tighten hardware** — Thread all nuts by hand and bring the assembly into contact with the rail. Do not fully tighten one side while leaving the opposite side loose.



6. Align the supported equipment — Position the pole, stanchion, or compatible equipment between/against the mounting brackets as required by the product assembly drawing. Verify vertical alignment and orientation before final tightening.

7. Tighten evenly — Tighten the U-bolt nuts gradually and alternately so the brackets seat evenly against the rail. Maintain alignment during tightening.

8. Final inspection — Verify that all nuts are fully seated, the brackets are stable, the rail has not been damaged or distorted, and the supported equipment is secure and properly oriented.

5. TORQUE REQUIREMENTS

IMPORTANT: Final torque must be based on the exact application, supplied hardware, and governing installation specification. Do not substitute a torque value without verification.

For the MHK-RT tubular-rail mounting arrangement used with the Eaton/Crouse-Hinds V-Spring system, the manufacturer's installation information specifies tightening the mounting-bracket U-bolts to **36 lb-ft for carbon-steel hardware** or **22 lb-ft for stainless-steel hardware**. These values should only be used when the SF Industries kit and application match that manufacturer's installation configuration.

For other applications, use the project engineer's or fastener manufacturer's specified torque value.



MHK-RT — POST-INSTALLATION & TECHNICAL INFORMATION

6. POST-INSTALLATION CHECK

- Brackets are fully seated and aligned.
- U-bolts and nuts are installed in the correct sequence.
- Final torque has been verified and documented.
- Rail is free of visible deformation or damage.
- Supported equipment/pole is secure and correctly oriented.
- Electrical connections, if applicable, have been completed in accordance with applicable codes.
- Installation has been inspected by the responsible qualified person.

7. MAINTENANCE & INSPECTION

Inspect the bracket assembly periodically and after significant vibration, impact, structural changes, or maintenance activity. Check for loose hardware, corrosion, deformation, cracking, or movement of the supported equipment. Replace damaged components before returning the installation to service.

8. TECHNICAL REFERENCE

This installation document is intended for SF Industries product documentation and should be used together with the applicable product drawing, equipment manufacturer's instructions, project specifications, and governing codes.

MANUFACTURER: SF Industries USA | **PRODUCT:** MHK-RT Tubular Rail Mounting Bracket Kit