

## No Joints. Continuous power. Uninterruptible fun!



For more than 50 years, U-S Safety Trolley has provided amusement parks with the most reliable, maintenance-free, mobile electrification system in the industry. Our **Tri-Bar and Four-Bar** systems offer a unique design with no joint conductors for the entire length of the run, eliminating the weakest part of any electrical system — the joints. Collectors seamlessly travel down the conductor bar without the common hang-ups that occur in conventional jointed systems. Run your rides at peak efficiency and with no interruptions.

To learn more, visit [USSafetyTrolley.com](http://USSafetyTrolley.com).



### BENEFITS

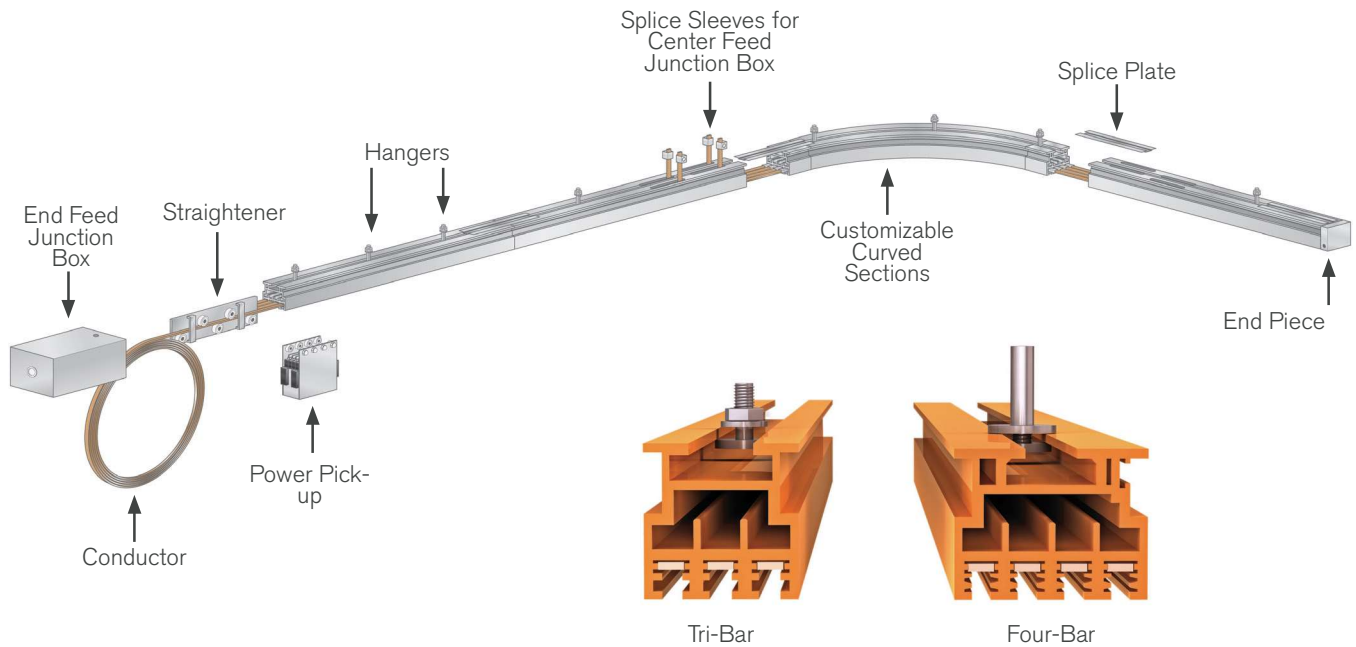
-  No downtime due to arcing
-  No loose joints
-  No pitted steel bars
-  No joint expansion
-  No misalignment

### FEATURES

- Continuous conductor design
- Bendable 360 degrees
- Customizable to any curve, oval, or circular configuration
- Vertical or Horizontal installation
- Virtually maintenance-free

### TECH DATA

- Family:** Tri-Bar/Four-Bar
- Voltage:** Up to 600VAC and DC
- Amperage:** 100 and 125 amps
- Collectors:** 35, 70, and 125 amps
- Conductor:** 100% copper
- Power Pickups:** 15, 30, 40 or 50 amps
- Temperature Ratings:** From 0°F (-18°C) to 135°F (55°C)



## FREQUENTLY ASKED QUESTIONS

**Q: Is the Tri-Bar/Four-Bar Trolley System truly a joint-free system?**

*A: Yes – a solid one-piece copper conductor is provided and dimensionally cut to each job's requirement and shipped in a coil for installation.*

**Q: What are the benefits of a joint-free design?**

*A: Tri-Bar/Four-Bar's joint-free system eliminates the weakest part of any mobile electrification system: the joints. The non existence of joints reduces costly hang-ups and derailments. Its simplified design is virtually maintenance-free, reducing inconvenient and expensive downtime.*

**Q: At the point of installation, how do you assure that the conductor shipped in a coil will be able to be inserted through the entire housing?**

*A: The installer-friendly design of Tri-Bar/Four-Bar housing enables the installation of 100 feet or less to be performed by (1) person only. For larger runs, U-S Safety Trolley offers a proprietary straightener tool that allows you to position the entire conductor length appropriately and insert it into the housing.*

**Q: Can the Tri-Bar/Four-Bar Trolley System be bent?**

*A: Yes – our systems can be factory shaped to customer's specifications into loops, ovals, "S" shaped curves, circles, commutator rings, multi-curved monorail tracks, isolated maintenance zones, etc. The system can also be modified with switches and disengageable trolleys for easy assembly at the installation site.*

**Q: What are other common applications of Tri-Bar/Four-Bar Trolley?**

*A: Our customers have used our trolley systems for the last five decades in a wide variety of applications such as: crane electrification, hoists systems, manufacturing assembly lines, aircraft hangar doors, monorails, cutting tables and sewing lines for the garment industry.*

**Q: What is the life expectancy of the Tri-Bar/Four-Bar Trolley System?**

*A: The life expectancy of our power pickups shall provide a minimum of 5,000 miles of wear life usage under normal conditions. Extreme environmental conditions, human errors, and other factors may affect its life expectancy.*