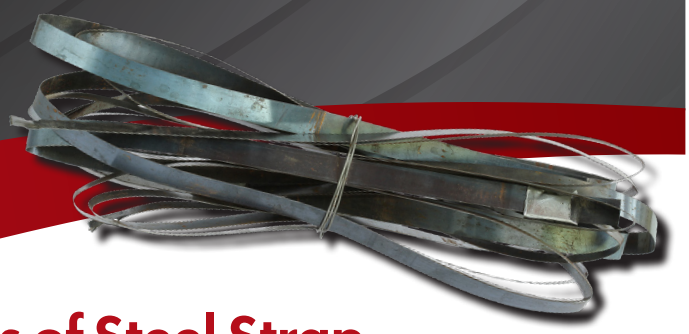
Challenger® PACKAGING

Quality • Consistency • Dependability



Dangers of Steel Strap

Steel strapping has long been the standard for securing large, heavy loads in transit. But with modern advancements, it may not always be the most efficient option. Depending on your operation's needs, alternative materials—such as woven, composite, or polyester strapping—can reduce capital costs, boost productivity, and still provide reliable load security.

Unlike steel, these alternatives maintain elastic memory, allowing them to stretch with load movement and automatically compensate for shifting or settling. Steel cannot recover once slack is created, potentially compromising load stability.

Additionally, alternative strapping weighs less than half of a typical steel coil and will not scratch, stain, or rust—helping keep your products clean, protected, and secure.

Back Injury

Bodily Injury

Lash Back

Cut Hands and Arms

Eye Injury

Area Hazard

Steel Strapping	Alternative Strapping
Sharp Edges	Rounded Edges
Dangerous Lashback When Cut	Will Not Injure User
Loses Tension Over Time & Transit	Maintains Tension Over Time & Transit
Low Elastic Memory	High Elastic Memory
Low Joint Strength	High Joint Strength
Low Impact Absorbtion	High Impact Absortion
Rusts & Damages Load	Will Not Rust or Damage Load
Heavy, Causing Back Injuries	Lightweight and Maneuverable
Difficult to Discard	Easy to Discard
High System Cost	Low System Cost

Alternatives to Steel Strap

Woven Polyester Strap is made from high-tenacity yarn for exceptional strength without splitting. Highly flexible and versatile, it provides a safe, effective alternative to steel, composite, and other banding materials. Offered in various tensile strengths and widths, it securely stabilizes heavy or uneven loads and can be tensioned with manual or pneumatic tools.

Composite Cord Strap is made from polyester fibers coated with clear polypropylene, providing added water resistance and smoother handling when threading under pallets or through buckles. Compared to traditional strapping materials, it can typically be applied faster, safer, and more cost-effectively.

Polyester (PET) Strap is a cost-effective, lightweight solution for bundling, reinforcement, and load containment. Available in various widths and gauges, it offers the highest elastic memory among strapping materials and achieves 75–80% joint efficiency with friction welding. Its flexibility allows it to conform to irregularly shaped products.

For More Information Contact
Packaging@SouthernCarlson.com

Challenger-Pkg.com