



# Engineering Solutions

## *Automotive Cargo Hook*

**Perfect for reducing manufacturing costs and weight!**

The redesigned cargo hook tie down uses high-strength steel and an innovative design approach to help our OEM customers reduce cost and weight, without sacrificing function.



### Features:

- ◆ **Reduced Weight:** Thinner gauge, high-strength steel contributes to a 34% weight reduction while still surpassing all loading requirements.
- ◆ **Improved Strength:** Single-piece stamping technology, thinner gauge steel and a structural flanged hem deliver a 300% increase in overall strength, while a protective polymer coating provides superior corrosion and scuff resistance.

### Technical Specifications

**Material:** SAE 1050

**Heat Treat:** Austemper

**Finish:** Black Nylon

**Current Weight:** 2.4 grams

**New Weight:** 1.6 grams

**NHTSA Requirements:** 393.100

- ◆ **Easier Assembly:** An added protective polymer coating and slotted installation holes (which can accommodate multiple bolt sizes) improve ease of assembly.
- ◆ **Reduced Cost:** The new design costs less to manufacture and can be used across multiple vehicle platforms.

Finding ways to reduce the weight and cost of components, without sacrificing strength or quality, is a critical concern for today's automotive engineers and EFC is constantly looking for new ways to help!

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