

# TOUGH GUY ADVANTAGES

## TOUGH GUY CLAIMER CAST SERIES

**Claimer Cast (C) Series** includes top rings made of proprietary shell-mold cast iron, phosphate-coated, with a torsional top ring.

**Advantages of cast iron rings include:**

- Provide excellent conductivity in the transfer of combustion heat to the cylinder walls
- Durable gray iron due to Hastings' graphite structure and distinctive alloys
- Lubricating graphite material allow rings to function without expensive coatings

## TOUGH GUY CLAIMER MOLY SERIES

**Claimer Moly (CM) Series** includes top rings made of proprietary shell-mold cast iron with plasma moly impact-resistant alloy. This provides a more lubricious, low-friction surface.

## TOUGH GUY PREMIUM DUCTILE SERIES

**Premium Ductile Moly (2M) and Chrome (2C) Series** include top rings made of proprietary shell-mold, ductile high-tensile strength premium cast iron. They are coated with plasma moly impact-resistant alloy or chrome.

**The advantages of ductile iron are:**

- Stronger and more resilient than gray iron
- Can withstand higher operating temperatures than gray iron
- Virtually unbreakable upon installation or under extreme stress
- Top groove ring material used in many late-model and high-performance or turbo-charged applications

## TOUGH GUY STEEL SERIES

**Tough Guy Steel Moly (SM) and Tough Guy Steel Chrome (SC) Series** include top rings made of alloy steel and coated with plasma moly impact-resistant alloy or chrome.

**Alloy steel advantages include:**

- Used in the most demanding high-compression, high-stress, and high-temperature ring applications
- Nearly twice as strong as high-tensile ductile iron
- Allows for thinner, lighter, ring designs that maintain better sealing at high rpm's by staying seated against the groove bottom
- Reduced side wear and extended life

## "Moly" and Chrome Coatings

**Advantages of Plasma Spray Molybdenum "Moly":**

- Hard and wear resistant
- Prevents bore scuffing when using high-tensile iron and steel compression rings
- Porosity traps lubricating oil
- Can be used with majority of bore materials

**Advantages of Chrome Coating:**

- Hard, wear resistant, and low friction
- Prevents bore scuffing when using high-tensile iron and steel rings
- Can be used to coat the face and sides of rings (triple chrome)
- Preferred over moly in dusty environments where the porosity of moly can trap contaminants
- Primarily for use on cast iron bores

