

HASTINGS TOUGH GUY™ RACING RING SET

Hastings Tough Guy Racing Rings are offered in three product groups: Claimer Cast, Premium Ductile, and Steel Series. Each set includes a Tough Guy Top Ring, 2nd Groove Ring, and a Flex-Vent Oil Ring.

TOUGH GUY TOP RINGS

Hastings Tough Guy top compression rings are the product of nearly 100 years of design, process and manufacturing output, including an in-house foundry and finely tuned systems for testing, simulation, and production.

Tough Guy top rings feature either a barrel face, which offers center edge contact for fast sealing, or a torsional profile, which creates a twist where the wall contacts the ring's lower edge. A torsional profile also provides excellent sealing of compression gases, and results in less friction and fast break in.

See page 9 for more information on the three levels of top compression rings offered with Claimer Cast, Premium Ductile, and Steel Series.



TOUGH GUY 2ND GROOVE CAST IRON RINGS

Every Tough Guy Racing Ring set includes an intermediate 2nd groove ring made of proprietary shell-mold cast iron. It features a reverse twist, torsional bevel taper face or Napier for positive oil control and immediate seating. A modified wall thickness reduces friction and provides excellent cylinder wall conformability.



HASTINGS FLEX-VENT® OIL CONTROL RINGS

When it comes to oil control rings, Hastings is the innovator. We invented the multi-piece oil ring followed up by the Flex-Vent expander, the design standard by which all other oil rings are compared.

All Hastings Tough Guy Racing Ring sets are engineered exclusively with Flex-Vent® oil ring technology to minimize friction, thus improving flexibility and high rpm oil control. The Flex-Vent expander oil ring is energized by two 1070 steel rails, which receive uniform pressure from the stainless steel expander to assure positive oil control. The three-piece design allows the rails to be manufactured with a small cross-sectional area for better conformability to the bores of today's low-friction engines. The rail's thin wall contact also allows for quick break-in time. Hastings' rails are chrome plated to extend ring life.

Another Hastings innovation in oil ring technology includes balanced tension. This process is performed on Hastings-designed machines, and it provides improved expander end contact. The Tough Guy Flex-Vent Oil Rings are available in both standard and low tension.

Flex-Vent® is the choice of racing engine builders worldwide.

