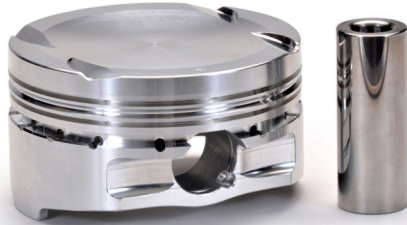


# DIAMOND *Pistons*

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## DIAMOND'S NEW SERIES OF FORGED PISTONS FOR 2011 FORD MUSTANGS

For those who wish to add a turbo, or any power adder, to their new 5 liter 2011 V-8 Ford Mustang Coyote, forged pistons will be necessary to transmit the additional power.



### Essential features for upgraded Coyote engines:

- **Variety of compression ratios** from 8.5:1 to 11.5:1. Available in half-point increments (9.0:1, 9.5:1, 10.0:1 and so on) as well as in four different bore sizes.
- **Illustrated piston** contributes compression ratio of 9.5:1, when used in conjunction with production 57cc Coyote cylinder head. Also accommodates a small turbo producing 8-10 PSI of boost.
- **Top ring positioned** .300in down from crown to protect it from increased heat generated by power upgrades
- **Type 2618** aluminum chosen to combat higher cylinder pressures and temps
- **Type 4130** chrome molybdenum piston pins chosen to combat higher forces
- **Double spiral locks** selected to secure piston pins, and small half-moon slots provided to access each lock
- **Small notch** machined in each piston skirt to accommodate factory oil sprayer. These sprayers provide additional lubrication to the piston pins—a technology reminiscent of earlier Winston Cup engines
- **Three optional barrier coatings** offered: Hard anodizing, a Teflon skirt coating, and a ceramic crown coating. Type 3 Hardcoat is particularly effective at protecting pistons against excessive combustion heat and detonation damage. Also increases corrosion- and wear-resistance—particularly useful on nitrous and blown applications. Moreover it creates an excellent adhesive surface for the Teflon skirt coating—a moly based dry-film lubricant that reduces friction and scuffing



### Briefly...



**What are your alternatives** when no one seems to make exactly the piston you want? Perhaps a shelf-stock part number gets close but you need one change—maybe a compression height change or a ring change or a bore-size change. **Diamond will provide this in a jiffy.** They have an excellent shelf-stock range, a huge uncommon part number range, and they are renowned for their timely custom and prototype creations. Try them, plant manager Rob Giebas thrives on a challenge.

Sam Logan

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