

CONFUSED ABOUT SUPERCHARGERS?

KENNE BELL TWIN SCREW / CENTRIFUGALS / ROOTS

Why the big switch to Kenne Bell?

Forget about the deceptive advertising, biased distributor rhetoric and race car performance claims. *Read what the experts say.*

The Centrifugals

"At low rpm and partial throttle the [centrifugal] blown Cobra feels as if it has less torque than the second hand of a \$4 alarm clock".....

MOTOR TREND (1996 Mustang Cobra 4.6L 4V)

"The belt driven [centrifugal] blower has little effect on engine performance at very low rpm, but kicks in progressively as the revs rise".....

MOTOR TREND (Muscle Trucks 5.2L V8 1996 Grand Cherokee)

"Below 3500 rpm the engine behaves like a regular 5.0 liter with good low end torque. It's above that point that the supercharger kicks in with additional thrust".....

MOTOR TREND (Muscle Trucks 5.0L V8 1996 Ford Explorer)

Kenne Bell Twin Screw

"Whereas everyone loves to quote peak horsepower and torque numbers, THE TRUE MEASUREMENT OF AN ENGINE'S OUTPUT IS HOW MUCH POWER IT PRODUCES ACROSS IT'S OPERATING RANGE".....

MOTOR TREND (Mustang Stampede 5.0L)

"Bury your foot from a stop and the rear [P315/45ZR17] Goodyears spin up to convert themselves to stinky white clouds".....

MOTOR TREND (Muscle Trucks 1996 Mustang Cobra 4.6L 4V powered F150)

.....and then there's other magazines - **"Unlike centrifugal superchargers which make boost proportional to rpm, the twin screw design develops all its boost just above idle - around 2000 rpm - and keeps it all the way to redline. The sensation is rather like a big block; lots of stump pulling torque and long, fat midrange pull".....**

MUSCLE MUSTANGS & FAST FORDS

"Anyone knows that a motor equipped with a centrifugal supercharger will only make 10 psi at the very top of the rpm scale. Owners of a positive displacement supercharged motor, on the other hand, can enjoy 10 psi every time he or she stomps down on the gas. That 10 psi is available right now and a ton of torque right along with it. Such is the benefit of a positive displacement supercharger: immediate boost. The limitations in top-end power are offset by a truckload of torque only dreamed about over in the centrifugal camp. Even at part-throttle, the positive displacement supercharger will offer as much as 100 percent more boost at the lower rpm compared to a centrifugal. Having 5 psi at part throttle makes for a seriously fun car to drive. Those 5-psi part-throttle stabs will be used 100 times more than the full-throttle rips up to redline, especially on a serious motor. How many times do you get to rip all the way to redline in any gear, let alone several in a row?"

MUSCLE MUSTANGS & FAST FORDS

Roots

What better measure of performance than to run the two blowers (Autorotor and Roots with the same displacement of 1.5 liters) at the same rotor speed? Running at identical blower speed, the Autorotor produced 47 more peak horsepower than the Roots type.

MUSCLE MUSTANGS & FAST FORDS ("Supercharger Slugfest")