

THE EXTRA MILE

Engine Building and Power Techniques

BY SCOTT SEHR



Absolutely, The Most Motor For Your Money! *Guaranteed*

Sehr Performance
going the
"EXTRA MILE"

Building Durability Into Your Street Rod Engine

When building a street rod engine, it is important to use the right parts for proper durability. When engines were built from the factory, they were designed to run for many miles with minimal stress on the components, but as the power increases the demand for better engine parts increases as well. With the higher horsepower that is common in today's street rod engine, it is even more critical to use the correct engine hard parts.

Quite often the customer will come in as we are discussing the engine build and express to me that, "I am not racing this engine." However, the parts in the high horsepower street rod engine goes through more abuse than they do in a racing engine because they are handling more of the power abuse for a longer period of time.

It is more common to see turbo charging, supercharging, and the use of nitrous oxide

in engines today. All of these components add much more stress to the pistons, rings, connecting rods, and crankshaft, not to mention the added compression pressures stressing the cylinder block, cylinder heads, and head gaskets. Building a high horsepower engine for short-term use is one thing, but building a high horsepower engine that will last for miles and miles requires some tricks and proper engineering.

It is very important to have the right combination of engine parts selected so you have success and durability built into your engine. It is always safer and a better idea to overbuild your engine than to cut corners and under build it. Another area that is often overlooked is the valve train. Today's camshafts have more lift and duration than ever before, they undergo more stress because of the higher valve spring pressures that are required, so using the correct material for your camshaft

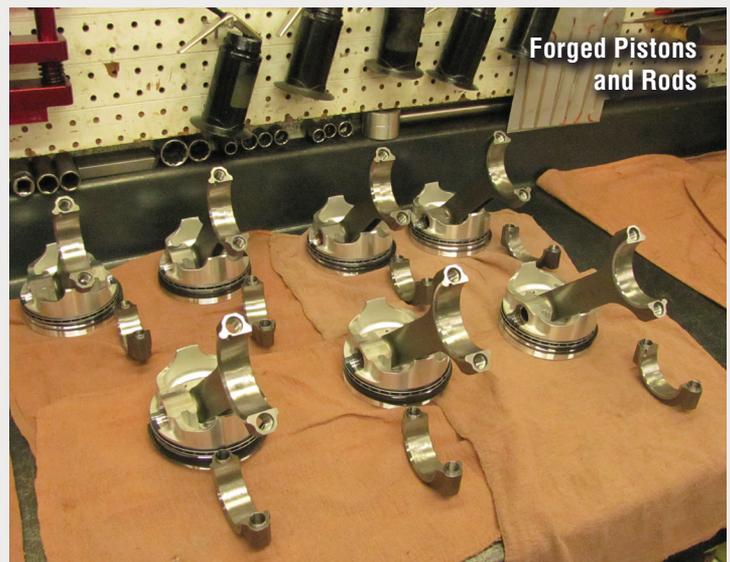
to minimize flex and to get the power out of your engine and desired engine life is critical. Choosing a durable rocker arm system and adequate pushrods is always an important choice when engineering a hot rod engine. It is also very important that the proper clearance techniques, and oil system modifications are performed in these types of engines.

With all of the availability of engine parts with mail order, and the Internet today, it can be quite overwhelming to put together the correct combination of engine parts for a successful engine build. It is very common to see our customers buy components and spend money that is not necessary.

When we build an engine for our customers here at Sehr Performance, you can be assured that we are putting all of our experience and knowledge into your package combination so you can get the "Extra Mile" for years to come.



Extruded Aluminum
Rocker Arms



Forged Pistons
and Rods