

Roush Performance Engine Package 402R

For the enthusiast looking for the thrill of 500 HP, the 402R delivers. Its combination of internally balanced forged rotating assembly (crank, rods and pistons) and the magic of a 4-inch stroke, delivers smooth power from idle to red line. "Strap in and hang on"..... This engine is fun to drive and performs great on premium unleaded "pump fuel". This engine, like the others offered, is "hot tested", then dyno tested to verify power (and is shipped with documentation) and carries a warranty.

The engine department at Roush has been assembling engines for over 25 years. They have built thousands of race engines that have competed and won in drag racing, road racing, oval track racing and "land speed record" attempts. The same experienced group of engine builders inspect, assemble and test every engine offered.

Engine Features:

1. **Base engine:** Ford Racing Sportsman (Windsor) 9.5 Deck Height 2-bolt iron block, **4340 forged crank**, **4340 forged "H" beam connecting rods** with 3/8" high-strength" bolts, **forged crankshaft** and **pistons** with a 10:1 compression ratio.
2. **Cylinder Heads:** Roush Aluminum, "fully CNC ported" with premium stainless steel valves; 2.02" intake and 1.60" exhaust.
3. **Camshaft:** Hydraulic roller cam (Roush proprietary) with a double roller timing chain and gear set.
4. **Valve train:** 1.6:1 roller rocker arms with dual valve springs mounted on 7/16" studs.
5. **Intake Manifold:** Single plane aluminum standard, Dual-plane available as an option.
6. **Carburetor:** Roush "tuned", Holley 770 CFM with vacuum secondaries and electric choke.
7. **Air Cleaner:** 14" Chrome (standard, others available)
8. **Valve Covers:** Polished, tall aluminum covers engraved with the POWERED BY ROUSH logo and your engine's Serial Number are standard (others are available).
9. **Oil Pan:** Powder Coated- 8-quart "T" style, front sump ROUSH pan is standard. Adjustable Melling oil pump with heavy-duty oil pump "drive" shaft.
10. **Accessory Drive:** Roush Aluminum under drive V-belt pulley system, billet aluminum mounting bracket and spacers with 90 Amp, single wire alternator.
11. **Fuel Pump:** Mechanical high-performance pump with braided line and fittings from pump to carburetor w/ fuel log.
12. **Flywheel:** SFI Approved 157-tooth billet steel flywheel installed (balanced to 28.2 in./oz. factor). Aluminum flywheel available as an option.
13. **Ignition:** MSD "billet aluminum", vacuum advance distributor with Ford Racing 10 mm plug wires and wire-looms (8-piece set).
14. **Starter:** New, Super High Torque (1.6kw) starter with cable.
15. **Water Pump:** New Ford production or equivalent, standard rotation for V-belt applications under 6,000 rpm.
16. **Testing and Documentation:** Each engine is "hot-tested" and then subjected to several "dyno pulls" to verify power. Each 402R engine is shipped with a copy of the test results along with "fender and firewall badges".

Options: McLeod clutch (and installation), "Polished-Package" and others are available.