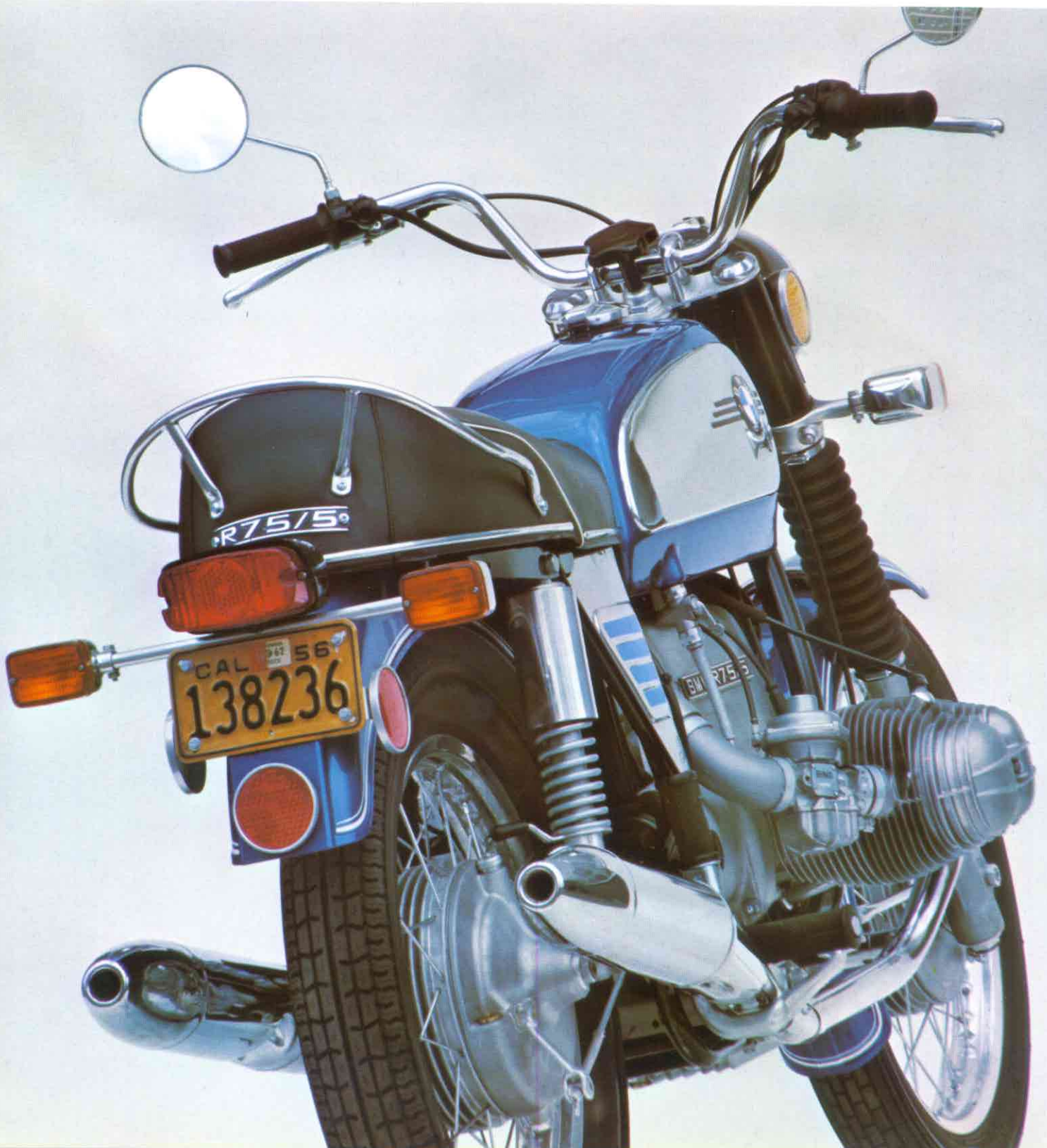


Wunderbike



The 1972 BMW

The 1972 BMW is our best ever, incorporating nearly half a century of motorcycle engineering leadership. 500, 600 and 750 cc. 36, 46, and 57 hp respectively. A top speed of 110 mph. Acceleration, 0 to 60 mph in 6.1 seconds.

As with all BMW's, the '72 engine is identified by the distinctive, balanced horizontal twin cylinders. It provides light weight and maximum cooling. The engine, crankshaft and camshaft are contained in a tight-fitting, one-piece tunnel housing cast of high-grade Silium. The one-piece crankshaft, supported by three-layered solid bearings, is of drop-forged steel, amply dimensioned to take BMW's immense power output. Engine lubrication, incorporating a wet-sump, is provided by a camshaft driven Eaton-type rotor pump capable of moving 800 liters of oil per hour through the system at 6000 rpm.

The 500 and 600 cc BMW's are equipped with slide-controlled concentric float carburetors, utilizing an acceleration pump. The 750 has Bing vacuum-type carburetors. The diaphragm of the vacuum control regulates the power-output perfectly, achieving forceful, yet smooth,

engine performance. The carburetors are flexibly mounted to the engine to isolate them from engine vibration.

Running in an oil bath within the right rear swing arm, the driveshaft leads to the immensely strong spiral ring and pinion gears. Each of the ring and pinion gears is doubly supported by a needle bearing on one end and a ball bearing on the other. Because of BMW's careful running-in and adjustment during assembly, ring and pinion gears are completely silent.

The extremely strong, low-in-weight oval-tube cradle frame provides absolute torsional rigidity without loss of longitudinal flexibility. The rear section is separate and bolted on for easy replacement.

The telescopic front fork was introduced by BMW in 1935 and has become standard for motorcycle construction throughout the world. The front forks effect damping by hydraulic shock absorbers at full extension and compression. 8-inch plus vertical wheel travel in front is matched by nearly 5 inches of rear wheel travel for great roadability and matchless comfort.

BMW's brakes are virtually fade-proof, because they are specially designed so that friction actually increases with heat. The electric system was developed by Bosch and BMW and is the finest available today. A Bosch 12v alternator driven by the crankshaft feeds current even when the engine idles. Concealed by a mirror chrome plate under the dual seat, the lightweight 15 Ah battery provides for reliable electric starting even in cold weather. A relay underneath the tank prevents accidental engagement of starter gear when the engine is running. The Bosch headlight, utilizing a 45/40 watt bulb, throws an asymmetric beam pattern, minimizing glare and providing strong illumination for safe night riding. The instrument cluster located within the headlight housing holds the tachometer, speedometer and multi-colored warning lights for high/low beam, battery charge, oil pressure and neutral indicator. Electric turn signals fore and aft are, of course, standard equipment. The 1972 BMW's are available in black, white, and in metallic silver, curry and blue.







Vital statistics are:

R50/5

Displacement: 498 cc;
 Horsepower: 36 at 6600 rpm;
 Stroke/bore: 70.6/67 mm;
 Compression ratio: 8.6:1;
 Front tire and wheel: 3.25 S x 19;
 Rear tire and wheel: 4.00 S x 18;
 Weight: 410 lbs.;
 Over-all length: 82 $\frac{1}{2}$ inches;
 Saddle height: 33 $\frac{1}{2}$ inches;
 Top speed: 100 mph;
 Acceleration: 0 to 60 mph in 9.8 seconds;
 Electric starter optional.

R60/5

Displacement: 599 cc;
 Horsepower: 46 at 6600 rpm;
 Stroke/bore: 70.6/73.5 mm;
 Compression ratio: 9.2:1;
 Front tire and wheel: 3.25 S x 19;
 Rear tire and wheel: 4.00 S x 18;
 Weight: 421 lbs.;
 Over-all length: 82 $\frac{1}{2}$ inches;
 Saddle height: 33 $\frac{1}{2}$ inches;
 Top speed: 105 mph;
 Acceleration: 0 to 60 mph in 7.8 seconds;
 Complete with electric starter.

R75/5

Displacement: 745 cc;
 Horsepower: 57 at 6400 rpm;
 Stroke/bore: 70.6/82 mm;
 Compression ratio: 9.0:1;
 Carburetor: Bing vacuum;
 Front tire and wheel: 3.25 S x 19;
 Rear tire and wheel: 4.00 S x 18;
 Weight: 421 lbs.;
 Over-all length: 82 $\frac{1}{2}$ inches;
 Saddle height: 33 $\frac{1}{2}$ inches;
 Top speed: 110 mph;
 Acceleration: 0 to 60 in 6.1 sec.;
 Complete with electric starter.

Information and Price List on European Delivery Plan are available on request.

Sole U.S. Importer: **Butler & Smith, Inc.**

East: P. O. Box H, Norwood, New Jersey 07648

West: 135 East Stanley Street, Compton, California 90220

Canada: **BMW Motorcycle Distributors**, 204 Yorkland Blvd., Willowdale, Toronto, Ontario



Bavarian Motor Works