

Magnus motorsports is the leading 4G63 engine builder in the world. Our engines have won a considerable number of world championship races in numerous motorsports arenas, including Drag Racing, Road racing, Autocross, Rally and Hill climb.

Our 13 years of experience have allowed us to create multiple variations and combinations for the 4G63 which give the driver the ability to completely tailor their powerplant to the type of racing required.

We have invested a great deal in research and development to produce prototypes and race these new combinations for the 4G63. We have perfected each of our designs to create maximum power and the ultimate in reliability allowing us to provide this product to the enthusiasts and racers alike.



As innovators within the Mitsubishi community, Magnus Motorsports has built and tested high compression turbo motors, 2.4L Long rod, 2.1L 2.2L Long rod and Methanol burning 4G63s at 90 psi of boost long before these ideas have been adopted by the rest of the Mitsubishi world. No other engine supplier in the world has researched as extensively as Magnus Motorsports nor do they offer as many components for the 4G63 and its variants as we do. We have designed, tested and run over 150 different piston designs and variations in the last 10 years alone with compression ratios from 7.5:1 all the way to 15:1

We have always strived for more performance with reliability in order to stay ahead of the competition. Our advances in 4G63 technology have put us miles above the rest simply because we refuse to rest on our laurels and allow our competition to catch up. The fastest Mitsubishis in the world run Magnus components for a reason, they win races and they never give up first place.

Previously, this “private stock” of components was reserved only to our own cars and engine builds. Due to demand by several customers requesting these components be released for public consumption we have decided to declassify our highest technology components and offer them for sale.



Over the past four years, we have taken these engines to over 1400 HP, 11 000 RPM+ and 90+ PSI of boost pressure. These are demands that were never thought to be possible with this platform, but Magnus has made these a reality. These are the parts we use in the worlds fastest Mitsubishi race motors and can be used in yours. We have put together a detailed guide that will outline what components you will need to build yourself an engine of this caliber. This guide will give you a general idea as to identifying the best combination for your specific application. Keep in mind that we can build complete engines to your exacting requirements should you be after a “turn key” solution.



All of our pistons included in this stroker kit utilize the Magnus Quench Pad Dish design which mirrors the quench pads on the 4G63 cylinder head, This gives our pistons extremely high detonation thresholds. All of our pistons have enough valve pocket to clear 12.5mm lift cams. They feature a unique new shape to help quiet the forged piston noise usually associated with running loose tolerances, .005" + piston to wall clearance is the absolute minimum needed to survive at elevated horsepower levels. Advanced ring packages are included on all of our pistons for superb break in and excellent sealing.



Magnus rods have an advanced profile and are built to withstand the torments of high hp and high RPM. Our Alloy rods feature L19 fasteners to allow for more clamp loading on the rod to survive at high RPM. They have been tested at over 350hp per cylinder. We recommend that any engine running over 800 HP should use our Aluminum Rods with our 23MM pin upgrade.

Magnus Crankshafts are machined from a solid piece of 4130. Our cranks have lightening hole knife-edged counterweights, large radius fillets and cross oil drilling. They start life as a 200kg chunk of steel and are machined and prepared to our exacting tolerances, they are then Nitrated and finish ground to exact tolerances. Finally they are precision balanced and are ready to install. No further machining or “corrections” are necessary as with other crankshafts on the market.

The quality of these pieces are second to none and come together in this stroker kit to provide the performance and reliability that Magnus customers have come to expect. By releasing this kit into the marketplace, Magnus has once again raised the standard that our competition strives to reach. If you are a driver looking for the ultimate competitive advantage, Magnus Motorsports just made it happen.