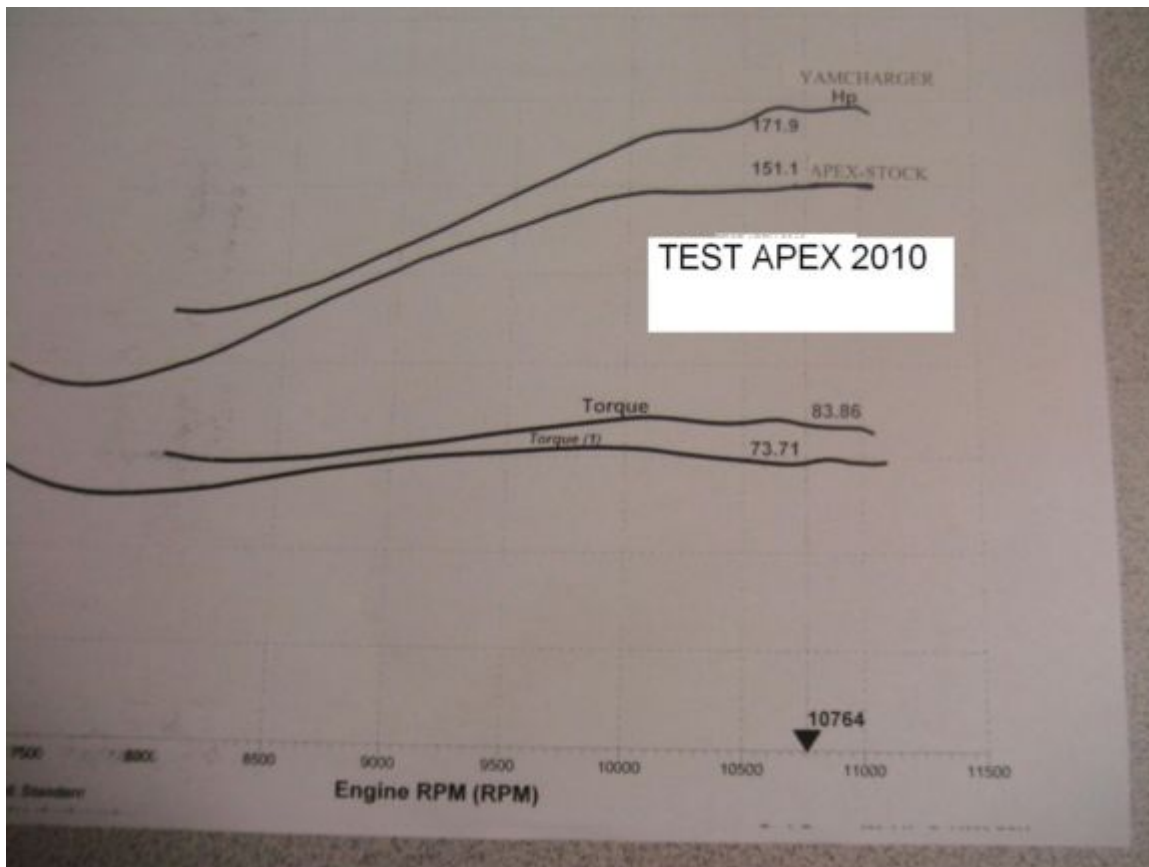


Yamcharger technical information

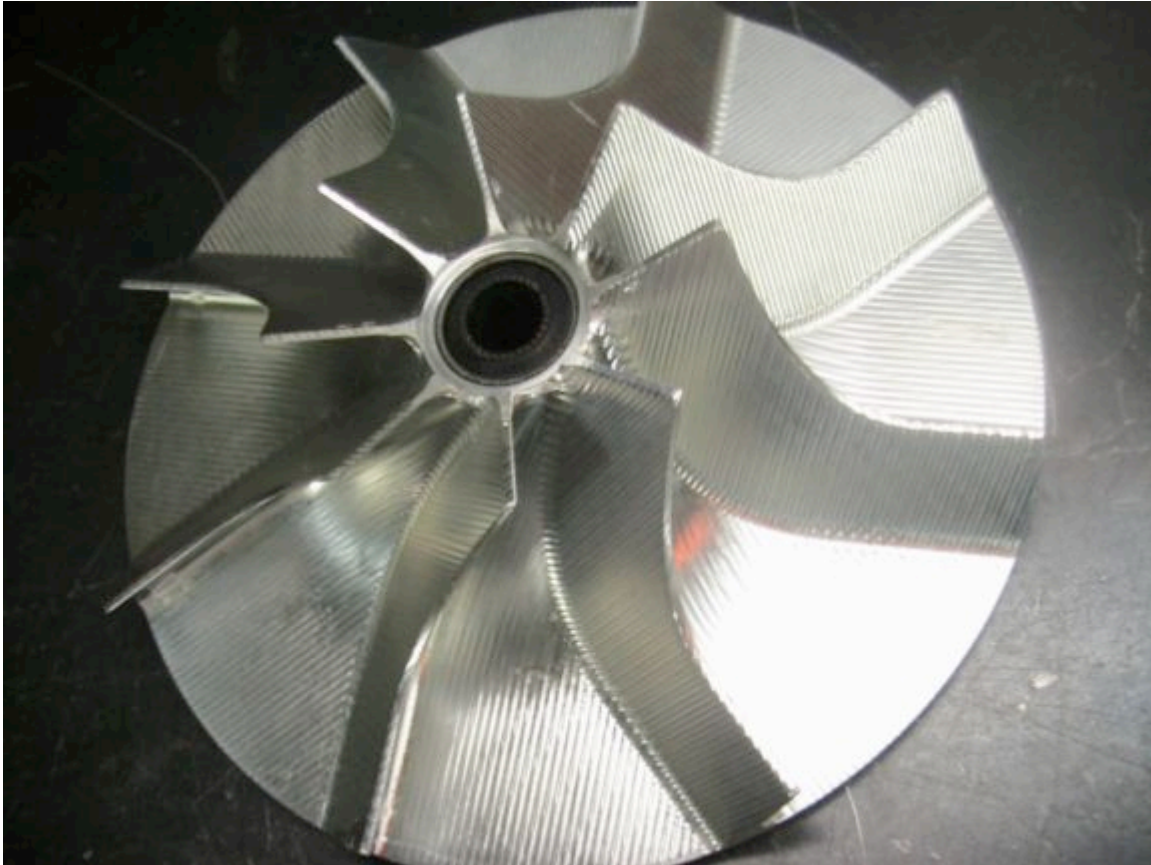
The Yamcharger is the ideal solution for those who want more horse power up-upgrades to their Apex snowmobile than the average after-market products available, but that are not ready to invest large sums for a supercharger or turbo system. The Yamcharger offers a 20 HP upgrade, keeping the engine in a very reliable state, the sound level remains un-modified.



Like no internal modifications are required, the kit is just as easy to remove as to install. Your Apex snowmobile keeps its high re-sale value.

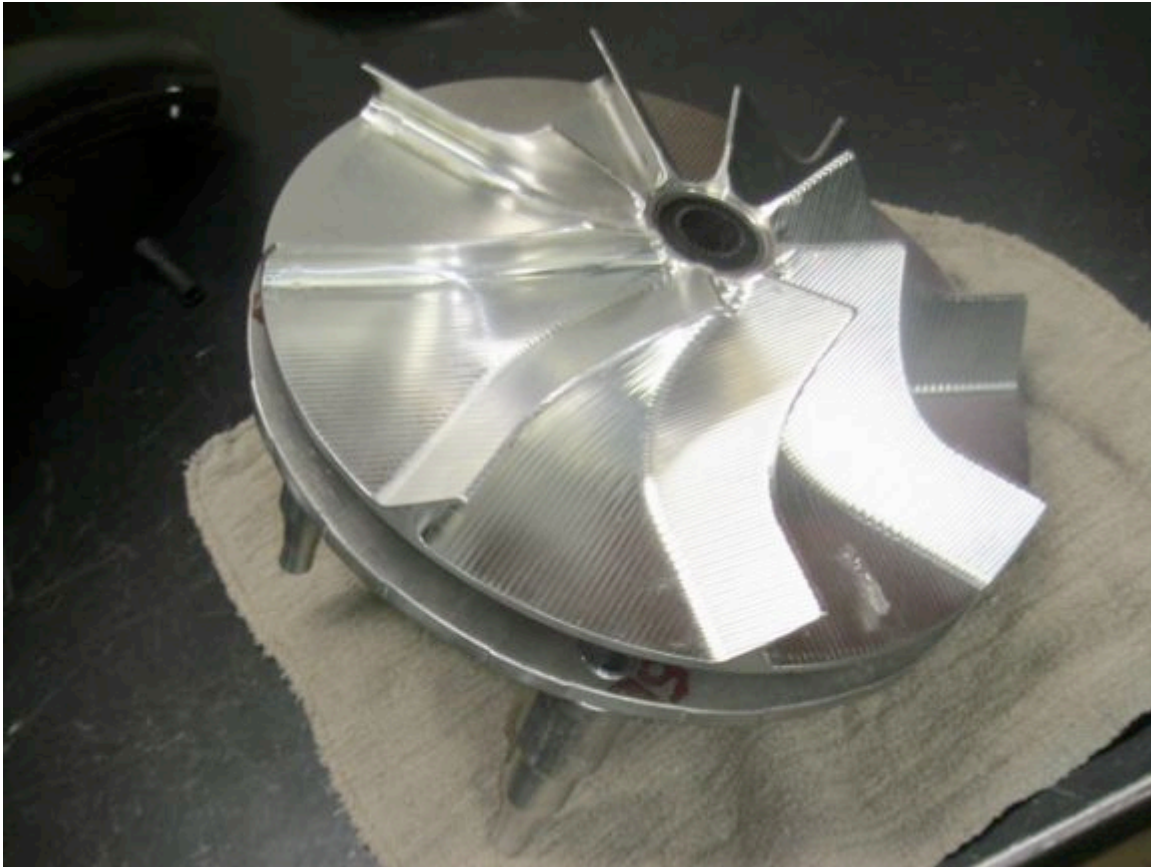
Completely designed and manufactured in Canada, the heart of the Yamcharger, the impeller, is made from aluminum billet, on a five axe CNC

machine. The Turbo style impeller has a rubber dampened core to eliminate any vibrations that may come from the crankshaft.



With its direct drive, (no gears, belts, jack-shafts) the compressor consumes less power to build its boost.

The pto assembly is supported by a support bearing that is screwed into the center of the alternator cover. This assures a perfect pto guide, eliminates any stress on the crankshaft, and assures a true and stress free compressor mount.



Since the Yamcharger is a low boost system, (2 psi), ABS plastic is a logic choice for the construction of the compressor housing and plenum box, for its resistance and weight. It's constructed to resist 6 times the boost applied.



The air filter is inserted on the housing, and a deflector is attached to receive fresh air from the top right grill.



Once installed on your Apex snowmobile, it adds only 5.3 lbs. The plenum box and brackets are constructed to let you re-install the top half of your oem air box, letting you keep your original look!

With the Hp gain, you need to recalibrate your clutch. The engine still operates in its original rpm rage of 10600 rpm and with a maximum of 10800 rpm. You can simply add weight to your existing clutch arms, approximately 4 grams per arm, with our G-force copper heavy arm rivets, or use our specially designed G-force Yamcharger arms.



G-force developed a specially designed arm weight to fit the Yamcharged Apex engines. Since the Hp gains are more pronounced at higher rpm, the arms are slightly more curved for a more aggressive higher rpm shift, and slightly lighter for a quicker back shift. Final adjustments are made from adding or removing washers held in with a screw, easily done without even removing the arms from the clutch. Washers and screws included.

It's been with the huge demand that G-force Division developed the Yamcharger. We install and modify turbo and supercharger systems for the past 12 years, and the demand has been big for a HP modification in this price range. We are very excited to offer this new system.

Thank you for having confidence in G-force division for the performance of your Yamaha, the team that marked a world snowmobile land speed record September 23rd 2009 at the Bonneville flats in Utah. The G-force one

attained an average of 202 mph in a one mile trap, and an exit speed of 210 mph.

Visit: www.youtube.com/watch?v=93c0cWCou-k

