

Dyno Specialist



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Are you tired of spending money to make your bike better, faster, cooler but gain no benefits? Do you have a mate with the same bike as yours and you're tired of losing to him in drag races?

Many motorcyclists spend hundreds of dollars on bolt on accessories but still don't get the full benefits from their bike because they don't tune them in properly.

MCR is a motorcycle dealership with a state of the art workshop that offers a Dyno tuning service. Not all motorcycle repair shops offer this service and these days you are at a disadvantage if you frequent a shop that does not.

As a Dyno specialist in Dunedin, we are often asked about the necessity and benefits of Dyno tuning. Here are some of our most FAQ's.

What is the Dyno used for?

A dyno is a diagnostic tool that measures the performance of a machine. We use our DynoJet Dynamometer to measure the rear wheel horsepower, torque, speed, RPM of any motorcycle. We use it as a rolling road, we use it to make your bike more efficient, we use it to improve fuel economy and throttle response. Once you get these things right, the by-product is horsepower!

How does it work?

The bike sits on top of the dyno. It turns a 384kg drum, which simulates riding down the road. The bike is tested with the engine running, in gear, and under various speeds and load conditions. Information is collected from sensors from the dyno machine and bike and a co2 gas analyser. This information is processed through the latest DynoJet software. Results are printed in the form of graphs. This information identifies specific strengths and weaknesses of the bike and from these results, decisions are made (in consultation with the owner) regarding changes needed for improvement.

Will it be hard on my bike?

It is a misconception that the bike is going hard out all the time whilst on the dyno. In fact, the dyno process is no harder on the bike than riding it on the road. Equipment is provided to maintain regular air flow so there is no chance of the bike over-heating. Our dyno technicians are fully trained and treat all customers' bikes with the upmost respect.

Is it just for setting up race machines?

The quick answer is no. Dyno tuning is commonly known for use in setting up race machines but street bikes gain huge benefits as well. It's suitable for sports bikes, cruisers, touring bikes and dirt bikes.

What are the benefits of putting my bike on a Dyno?

In a nutshell, when a bike is tuned correctly it is a much more enjoyable machine to ride. Dyno tuning allows us to give your motorcycle a tune-up of unmatched quality.

Efficiency: Getting your bike to run as the manufacturer expected it to. Efficiency of the bike can drop off at small amounts without the rider noticing it. Tuning your bike on a Dyno identifies these losses and allows full efficiency to be regained.

Throttle response: When tuned correctly the bike is smoother and much easier to ride. Dyno tuning your bike reinstates that "feel good" factor.

Performance & Mileage: The by-product of optimum efficiency and throttle response is the smoothest, most economical performance possible from your bike whether it is a road bike, touring bike, dirt bike or race machine.

Seriously, once you gain the benefits from dyno tuning your bike, you will smile every time you rev your engine! Our customer feedback is incredible and it's great to know we have helped other riders to fully enjoy their passion of motorcycling.

What other things can the dyno detect?

Running your bike on the dyno can also detect a number of other issues your bike may have such as clutch problems, chains and sprockets issues, tyre issues, dragging brakes and other things that deteriorate gradually, undetected.

Does a bike really need to be tuned on a dyno?

There are lots of reasons to run your bike on the dyno. If you have purchased a bike and its previous owners have fiddled with different exhausts, fuelling, and ignition settings then it would be wise to check that the bike is operating as it should be and the modifications are not doing more harm than good. Shops that don't have the equipment or knowledge are most likely to tell customers "that's the way that model runs" or "they're all like that". Our dyno is operated by fully trained technicians with 6 years experience of tuning in road and track bikes. They diagnose issues specific to the make and model of the bike using the latest information and technology available. We have also used the dyno to de-bug bikes that other workshops (including franchised dealers) just could not get to run properly.

What should I expect?

Process: First we determine (from speaking to owner) whether the bike has any particular problems of concern e.g. gas mileage, surging, lack of power, hard starting (hot or cold) pinging, missing etc. The bike is then inspected for obvious problems. We check engine is mechanically sound and look for common visual issues such as broken vacuum lines, plug wires, air filters, excessively dirty carburettor, etc. We also check the bikes maintenance history.

After consultation with the bike owner, we will then run the bike under a test session on the Dynamometer, monitoring engine performance etc. Adjustments are made to produce optimum performance. When the dyno tuning is complete we provide the owner with a hard copy analysis (in the form of printed graphs) explaining the tune-up specifications so there are no hidden agendas.

Time required to complete the process can vary depending on the needs of the motorcycle.

If you want to know more about our Dyno tuning service, come in and see Rick or Bex and discuss your options.