

DIY

Custom Diesel Chip and Exhaust Packages

Upgrade Kits Customised To Your Vehicle

Australia!

1300 305 709

You've been asking us for it



"We believe that expert workmanship combined with using the best parts available is the only way to do it well."

The team behind Roo Systems are passionate about getting your 4x4 diesel chip right the first time, taking the time to load the best custom diesel tune with the right exhaust, to ensure the best result.

The R&D team designing the ROO Custom diesel chip have been researching the available diesel chips on the Australian market. Our custom tune combined with our exhaust and chip package has proven consistently to increase performance above and beyond other systems in the market.



Increased performance needs increased exhaust. Our 3" system has been proven to outperform aftermarket 2.5" systems allowing our custom kit to get more out of your diesel 4wd than ever before.

Meet the magic behind Roo Systems.



Roo systems have been 5 years in the making with careful consideration in selecting the partners within our business. Roo system's is the brain child of Glen Hadden from AMMS Brisbane, Glen has joined his diesel knowledge with 4x4 chip programmers, experienced business coach & Dedicated Business Development Manager.

This sales team is backed by our R&D and quality control officer. Steve O'Donnell heads up our QA & R&D department, with 6 years hands on experience in Dyno Tuning, Performance Tuning, motorsport and mechanical experience. Glen has managed workshops, Dyno centres and 4WD Diesel chip service specialists, he understands first-hand the needs of the 4WD diesel chip industry.



Taking it to the Test RLCS

Our research and development team is influenced by feedback from our customers and from our real life case studies.

We firmly believe products for the Australian market should be tested in Australia, by Australians in every day driving conditions. Ask your supplier about their real life case studies before making your purchasing decision.

We encourage you to visit <http://4wdchip.com.au/RLCS> and read about Glen Hadden's Landcruiser, Lynda's Adventure on the Extreme Winch Challenge Circuit, Pete's latest trip in the 3.0ltr patrol and Shane's Roo Experience on his Nissan Navara as he uses his ute as a daily driver in his building business.

"Roo systems have brought to the Australian market a combined 4x4 diesel exhaust and 4wd diesel chip package tailored to the needs of the Australian 4WD Market. Roo systems have invested over 1500 Dyno hours in research and development to provide you with the right 4x4 chip package for the right four wheel drive job."



The Roo System can be described in two parts, The Brain (Roo System Chip) and the Lungs (Exhaust package), when these two parts combine you get the best product to EMPOWER your 4wd.

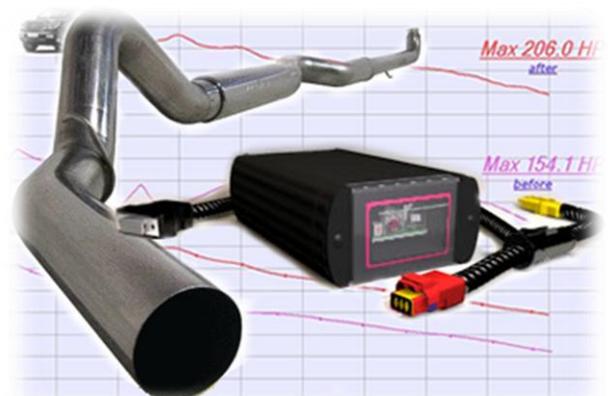


The Lungs

Roo Systems believe in combining the right chip, custom tuned to the right exhaust. The Team at roo systems have put suppliers to the test to choose the best exhaust combinations on the market for the 4X4 industry. (<http://4wdchip.com.au/exhaust>)

We have 2 Systems for the discerning customer to choose from.

1. 3" Mandrel Bent Exhaust 409 Stainless Steel
2. HPC Coated 3" Mandrel Bent Exhaust



An Australian First to the Market, Roo Systems now offer a DIY "ready to fit" HPC coated Exhaust system.



Roo Systems now offer a DIY "ready to fit" 409 Stainless Steel Exhaust.

Specially crafted for easy fitment without the need of a vehicle hoist.

Aluminized Steel vs. 409 Stainless Steel

Both aluminized steel and 409 stainless steel are excellent products for automotive exhaust applications. Both offer excellent heat and corrosion resistance and both can be easily welded.

"Aluminized steel is steel that has been hot-dip coated with an aluminium-silicon alloy. It offers more corrosion resistance than galvanized steel and is more heat resistant than cold-rolled steel or galvanized steel."

409 is a titanium stabilized ferritic stainless steel which means that it is a steel alloy containing chromium. Ferritics are best suited for high temperature applications that require corrosion resistance and high strength. The principal use of 409 stainless steel is automotive exhaust systems and most catalytic converter shells are made of 409.

More workable and stable than 304 stainless, 409 will accept bending and heat cycling better than 304. It resists both atmospheric and exhaust gas corrosion. It is magnetic due to its higher carbon content. Through chemical reaction, it oxidizes to a slight brownish hue which aids in corrosion resistance. While it does not give the shining highly polished finish, it offers the advantages of higher strength, lower cost and longer life due to its heat handling qualities.

Roo Systems 409 Stainless exhaust systems are focused on an easy fit philosophy. Specially design in smaller lengths with welded bolts and flanged at every joint, they are ideal for the DIY market.

"When going stainless, be sure to ask for 409 Stainless for your exhaust system to get the best combination of both long life, corrosion resistance and heat resistance."

Don't break your back with exhaust systems designed for the trade market. Get the systems designed with your convenience in mind.



*An Australian First to the Market, Roo Systems now offer "Trade quality fit"
HPC coated Aluminised steel Exhaust systems*

What is HPC? In 1982 HPC revolutionised the exhaust industry by introducing space-age coatings to the motorsports industry. Using coatings that were previously only available to the aerospace industry, HPC created a niche market for protective and thermal barrier coating in racing and street rodding. In the years since, HPC has developed numerous coatings for a wide range of applications.



Used widely in trade workshops, original equipment and aftermarket exhaust systems, aluminized steel is used by most muffler shops. This Trade fit product, is a very long-life product and will generally outlast steel mufflers by years. It is very workable and accepts bends without stressing.



Now this combined technology of HPC with Aluminised steel is available for your 4x4. Ceramic coatings keep the corrosion at bay while trapping the heat inside the exhaust systems keeping the gasses hot though out the entire system. This limits the tailpipe exhaust gases from cooling down resulting in

faster exhaust flow through our 3" systems than with a standard exhaust system.

This increases the efficiency of your engine while protecting the exhaust from corrosion, stone chips and keeping it looking good. In muddy conditions the highly polished surface of the HPC coating helps mud to simply hose off stopping it from causing more damage and keeping you truck looking its best.

Consider the benefits provided in terms of increased component life, performance gains, and durability.

Did you know?

You can also HPC coat 409 stainless for those who appreciate "best of the best" for their 4WD

What About The Chip?

“Roo Systems believe in combining the right chip, custom tuned to the right exhaust. The Team at roo systems have put manufacturers to the test to choose the best products on the market for the 4X4 industry.”



The Roo System diesel chip is an externally installed performance product suitable for all modern diesel engines. Designed to improve power, torque and efficiency, without compromising (and often improving) fuel economy.

The Roo Systems chip through our Australian programming adjusts Timing, Injector Pulse, Fuel rails pressure and more. Be wary of other products in the market who simply ramp up the amount of fuel without adjusting the rest of system to cope.



In most cases applications will achieve a 7-10% saving on fuel. It is retro-fit and will not interfere with original equipment or the manufacturers warranties. Installation is usually a swift process of less than 30 minutes. Thanks to Roo Systems, custom diesel tuning is available to increase the performance of all modern diesel vehicles by up to 35%.



“You may appreciate your diesel vehicle for its fuel economy, but you find it a little lacking in power! Or maybe you just want that bit of extra get up and go. Roo Systems combined diesel chip and exhaust are the solution!”

Engine safety should be a contributing factor for any consumer. The Roo Systems chip runs prior to the factory E.C.U. This retains full use of the Factory safety settings to keep your engine from reaching dangerous limits.

Be sure you ask any chip supplier about safety, efficiency and support.

ENQUIRE NOW on a Roo System to suit your vehicle

Feel the substantial increase in power and torque for the amateur or serious performance user.

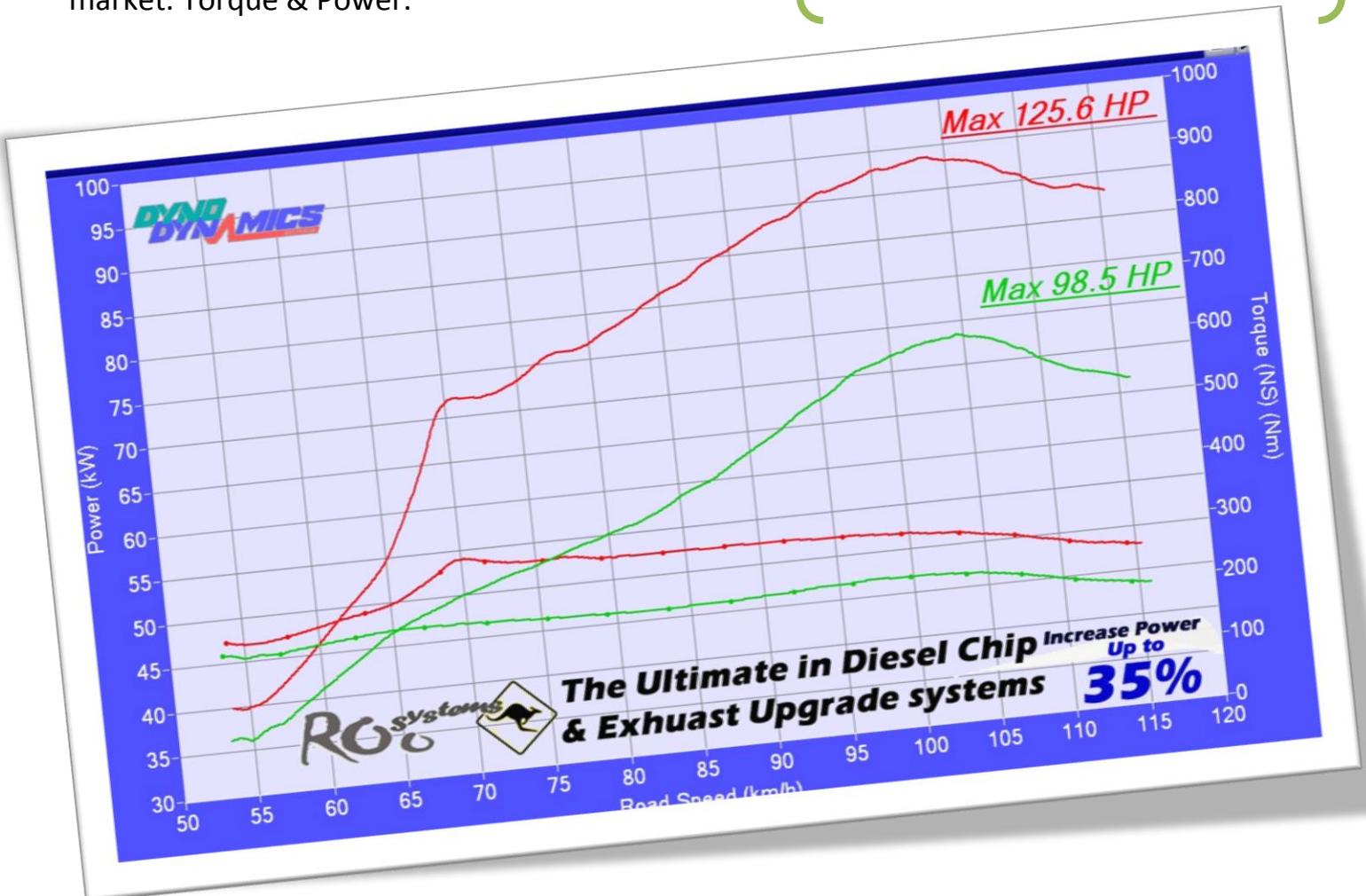
What Is In A Dyno Graph?

All Dyno graphs should provide with a before and after run. And on average there are two main points to look for on the graph for the 4WD diesel market. Torque & Power.

Did you know ?

The word horsepower was introduced by James Watt, the inventor of the steam engine in about 1775.

Watt learned that "a strong horse could lift 150 pounds a height of 220 feet in 1 minute."



When comparing dyno graph from different people there are a number of factors to be aware of.

- Never accept a dyno graph that does not show you the "legend" on the side and bottom of the graph. Beware of sales material without these points of measurement as they offer no genuine feedback.
- Ensure the power figures are in the same measurement eg; HP V's Kw, Nm V's Newtons
- Always ask for the vehicle details and ensure they are relevant to your exact vehicle.
- When comparing charts, be aware different Dyno machines can give different measurements. Also always ask the supplier if they use a "weather station" on the dyno to help ensure you get similar results in different climates. Ensure that the supplier is using a high quality machine.
- Always ask for the Rear Wheel measurement. This is the true measure of power to the road. Often people quote at and estimate flywheel measurement and this can be highly inaccurate.

As the customer you should always feel comfortable asking the supplier of your chip to provide accurate details so you can make an informed decision with confidence.

Frequently Asked Questions

The team at Roo Systems encourages you to ask questions. We believe in our product and we our customers should be well informed so they can make an educated buying decision. Be sure to ask any questions you may have in regards to your system.

Q:What Power Gain Can I Expect?

A:We average 30% power increase with our "out of the box" Chip and Exhaust kit.

Q: Why Is Roo Systems Different To Other Available Chips?

A: At Roo Systems we have collected data from over 1500Hrs of dyno time to get the

best setting to suit your 4x4, your driving style and our tuned matched exhaust. This gives you the best possible "bolt on kit" available.

Q: Will This Increase My Fuel Economy?

A: In most cases we see a great increase in fuel economy. The extra power and early torque curve of the Roo System gives you more power while using less fuel.

Q: I Have Already Installed A New Exhaust?

A: We can tune our Chip to suit your current system.

Q: Can your exhaust improve my current Chip?

A: A free flowing exhaust is a great partnership for any diesel chip product. The Roo System utilizes a 3" mandrel bent exhaust system which we can supply to suit your chip.

