

# ENGINE BUILDING SERVICES AT UAS

We take a professional approach to engine building, using only the highest quality techniques, parts and expertise to produce built engines of the highest possible standard.

Below you will find examples of the craftsmanship, time and quality control that goes into each and every engine, built by Unique Autosports.



All Welsh plugs are replaced and block painted with high temp paint.



Chasing threads with a tap to make sure threads are clean prior to bolted up heads.

Also see the performance engine shop we use take the time to do a nice hone finish and chamfer the tops of the bores.

They also check deck heights.



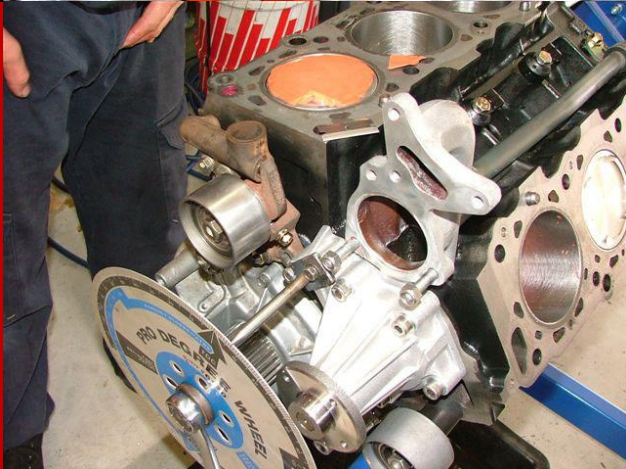
Optional porting of heads and we have done extensive flow bench testing to know what valves work best, what seat cuts, port design etc. Also see custom bronze valve guides which don't protrude into the ports as much as factory and other aftermarket ones, so better for flow.



Flow bench test.



Water & oil gallery blanking plugs being put back in after heads were stripped and cleaned whilst rebuilding motor.



VG30DETT with custom cams and oversized valves - Here we see UAS mechanics checking piston to valve clearance during assembly.



De burring of water jackets on a high performance motor, and particularly the middle large water gallery that has some large jagged bits which we remove to improve flow.





We take the extra effort to remove all the oil gallery blanking plugs in the block and heads, then the block is bored & honed, and the heads serviced then thoroughly cleaned and acid washed.

Oil gallery blanking plugs are then refitted.



All parts and surfaces cleaned and block painted.