

# *Dunnell Engines*

## **Duratec Con rod**

**Part No: RMPi4 - 1550**

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Manufactured from AISI 4340 steel this lightweight connecting rod is the result of many hours design using the latest in CAD / FEA systems. Although looking similar to many other con rods of this type, there are in fact small changes that inherently give it the edge we are looking for in our race engines.

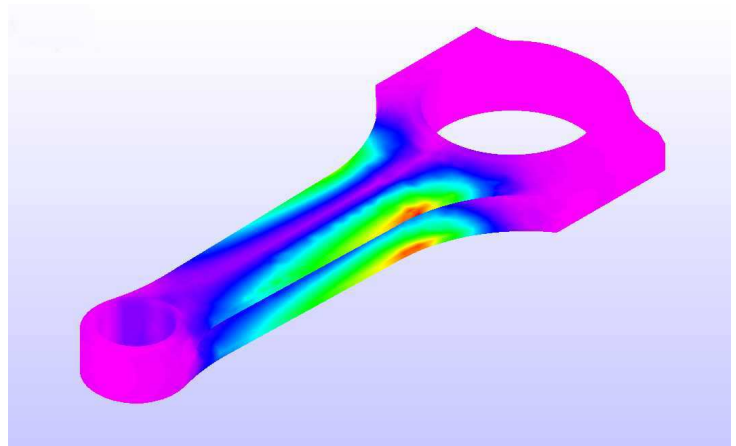
The manufacturing process includes full CNC machining and subsequent tempering heat cycle, followed by a thorough magnaflux crack detection, shot peening and a laser etching processes.



They are supplied ready balanced and equipped with our RMPi4 – 1552 bolts. These are UK manufactured with a UTS > 185,000 psi, and have resulted in the reliable operation using our RMPI4-1500 pistons to speeds in excess of 10,000 rpm.



Shown here are the 3D CAD & FEA models from an early variant clearly showing the stress build up on the outer unsupported edge at a given load.



Subtle design variations can help reduce the stress in these areas to within acceptable limits.