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- 1) The roll center correction bracket is designed with 4x safety margin for 1030 steel at 1,2 G cornering and 1,0 G braking load cases
- 2) The bracket body is forged from 1030 steel which is then CNC milled in a jig for precise fitment and finish
- 3) Outer tie rod end can be mounted in two different locations
- 4) The ball joint shaft stud and tie rod centering insert are produced from 4140 steel on a CNC lathe
- 5) Mounting hardware is class 10.9 and ball joint nut feature nyloc type locking
- 6) S13 and S14 specific versions for precise fitment without play

Design process involves calculating loads at different suspension mounting points during cornering and braking scenarios and applying them to design models using Finite Element Analyses and the topology is optimised to meet minimum 4x safety margin for material yield strength. Each version has been designed for specific chassis and manufactured using the same materials and manufacturing methods.

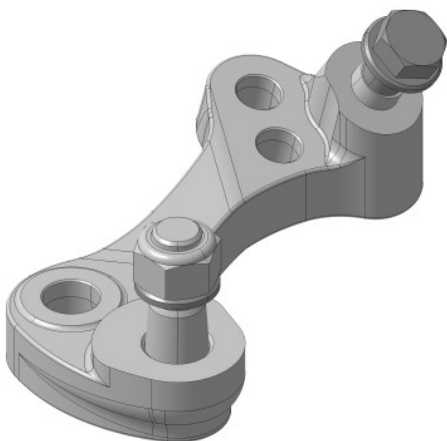


Figure 1. GKTech S14-S15 front roll center correction kit