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- 1) Rod end used has 52100 bearing steel inner ball and 25CrMo4 heat treated race with PTFE lining for lubrication and weather sealed with a boot.

Ultimate radial static load: 129kN

Outer ball joint used has 52100 bearing steel inner ball and 25CrMo4 heat treated race with PTFE lining for lubrication.

Ultimate radial static load: 221kN

- 2) Rod end spacers are 6061-T6 aluminium
- 3) All hardware is minimum 8.8 class and zinc coated for corrosion prevention
- 4) Sheet metal body and threaded tube end is 3mm thick steel 4130. Welded spacer is steel C30 for providing correct offset from the steering knuckle.
- 5) Welding assembly is welded together in a jig using GTAW welding method and meet EN ISO 13920-B for tolerances and EN ISO 5817-C for quality

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 stress.

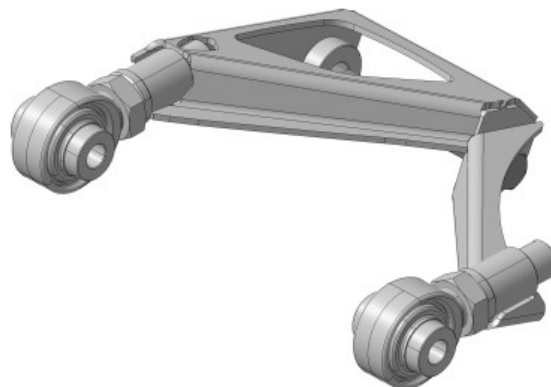


Figure 1. GKtech Skyline R33-R34 front top A-arm