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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 and press fit into the arm
Ultimate radial static load: 221kN
- 2) Rod end jam nuts are ASME B18.2.2 3/4-16 UNF 3B STEEL GRADE 8
- 3) Outer ball joint stud is 42CrMo4 steel and has a 4130 steel spacer, supplied hardware features Nyloc locking nuts DIN 985-8 and ISO 7092 M14 washers
- 4) Rod end spacers are high misalignment type made from 42CrMo4 steel on a CNC lathe
- 5) The welded assembly consists of all 4130 steel 22x2.5mm tubing, 3mm sheet for anti-roll bar mounting and bracing, threaded tube ends (thread quality 3B) and outer ball joint bearing housing
- 6) 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.

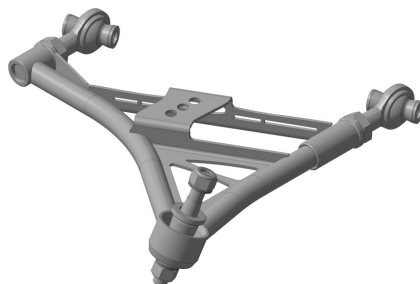


Figure 1. GKtech S13-S15/R32-34/Z32 rear bottom A-arm