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Stabilizer Bar System Technologies



Innovation:

- Fully parametric optimization of the complete stabilizer system, including package, tuning range, bushings, links and clamps
- In-house high-strength steel tubes up to 1800 MPa and pre-tempered spring steel with 100% non-destructive testing
- Stress-optimized tailored tubes with computer-aided profiles and up to three wall thicknesses
- Integrated modular link connection using resistance welding without additional material

Customer Benefit:

- Optimized system performance in terms of weight, cost, durability and function
- Up to 60% weight reduction versus a solid equivalent and up to 20% versus thin-walled tubes
- High material utilization, reduced stress peaks and reliable fatigue performance with low variation
- Robust, compact interfaces with reduced part complexity and efficient system cost

Status:

- Technologies ready for application development; first series project for the integrated link connection in launch phase.