



# Product Quality

At Grede, our unwavering commitment to quality underpins our ability to consistently deliver exceptional results for our customers. We are driven to offer unparalleled value through a rigorous focus on product quality, reliability, and sustainability. The Grede Quality System (GQS) stands as a testament to this commitment, ensuring the highest standards in product excellence.

As a leading producer of safety-critical castings, our commitment to quality is something we hold in the highest regard. Safety-critical castings play a pivotal role in systems where failure is not an option, especially in the automotive sector where they're used in vital components like brake calipers and steering mechanisms. Therefore, it's essential that these castings are of the highest quality, manufactured using advanced materials and processes, and undergo rigorous testing to ensure utmost reliability and safety.

## GQS – Grede Quality System Design

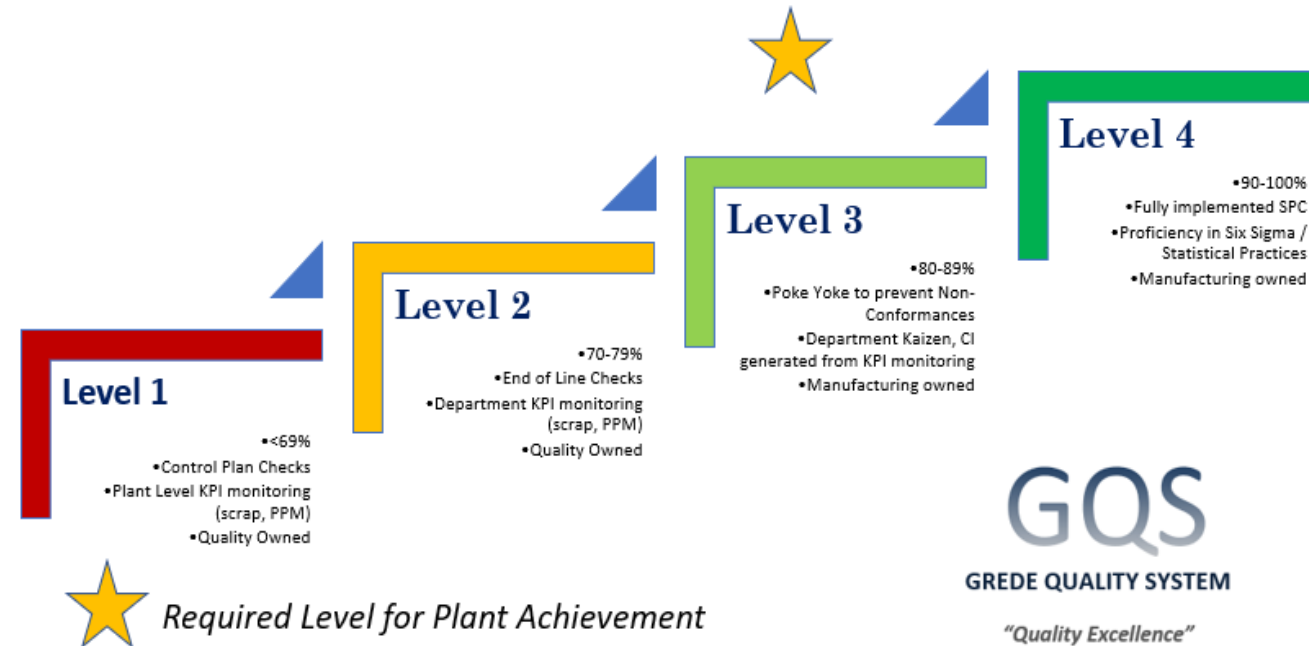
The Grede Quality System (GQS) is a continuous improvement strategy that prioritizes proactive defect prevention. It drives a shift of quality ownership from Quality Department to Manufacturing Leadership.

## GQS Strengths

- Foundry and Machining focused standards to drive excellence in Quality.
- Rigorous standards are set for all Grede plants and their suppliers.
- Integrating IATF, ISO, VDA standards, and industry best practices.
- Clear expectations are set alongside transparent performance indicators.
- Plant leadership ensure the GQS is consistently implemented across plants.
- GQS auditors perform objective evaluations, ensuring compliance and overseeing corrective actions within our facilities.

## Quality Performance Results

- Recipient of Paccar 10 PPM Award
- Recipient of Bosch Rexroth Zero Defects Award
- Zero Product Recalls. Zero Customer Service Campaigns



# Strategic Outlook: Evolution to advanced quality systems

Grede's evolution towards advanced quality systems reflects a broader transformation in business perspectives, recognizing the pivotal role of quality in ensuring lasting success, customer satisfaction, and holistic sustainability. Our Grede Quality Strategic Outlook stands as a testament to this commitment.

By integrating the Grede Quality System, Project System, Sand Standard, Metal Standard, Tool Preventative Maintenance, IoT Software, and the Industry 4.0 IT-OT Alignment Strategy, we're positioned to elevate manufacturing standards.

At Grede, we don't just aim to meet benchmarks; we set them, embodying the ethos: Where Exceptional Quality Meets Excellence.

## Key Strategic Components

**Grede Quality System (GQS):** A strategy centered on continuous improvement, emphasizing proactive prevention of defects.

**Grede Project System (GPS):** A uniform process employing standardized deliverables and six distinct quality checkpoints to guarantee a seamless product launch.

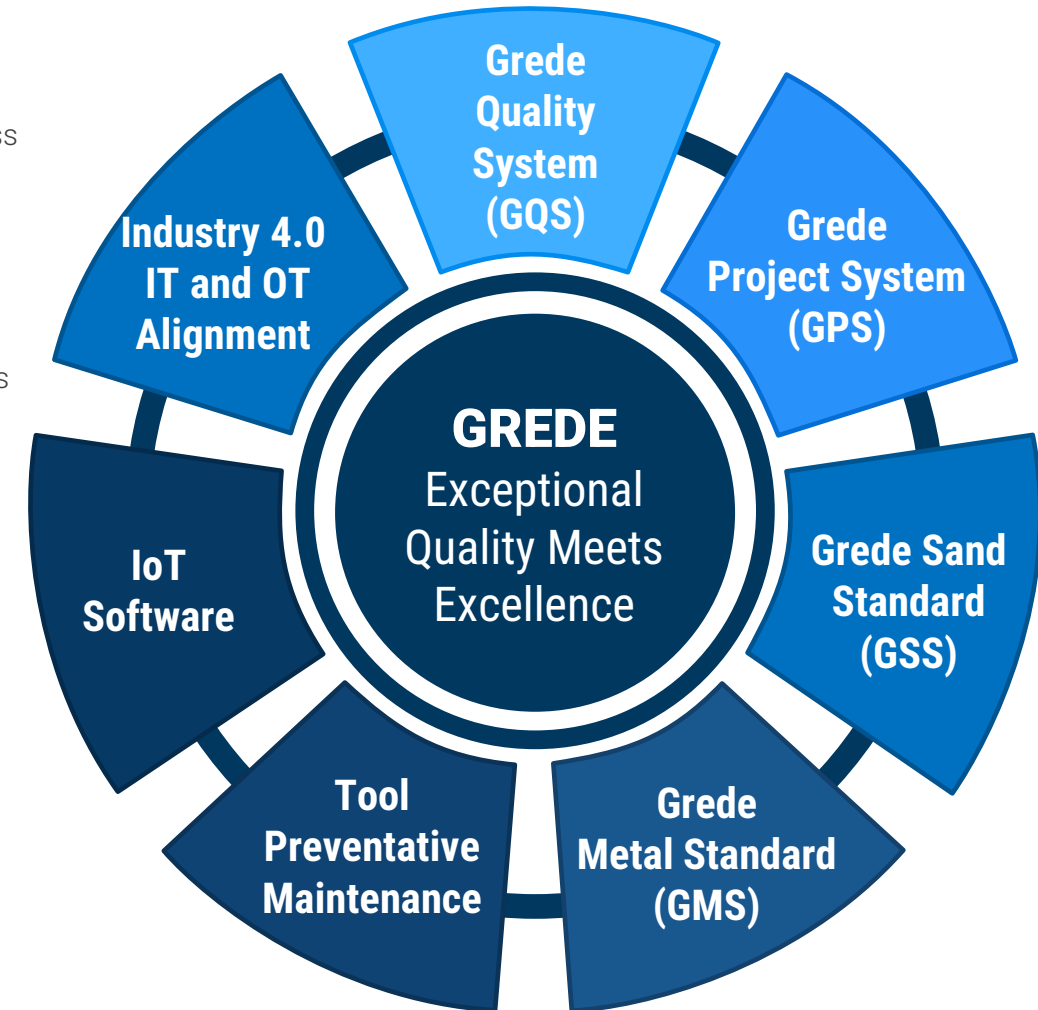
**Grede Sand Standard (GSS):** Equips the Grede team with essential knowledge and standardization, ensuring high-quality products through controlled and efficient processes optimization.

**Grede Metal Standard (GMS):** A unified approach across Grede, emphasizing best practices and thorough documentation for the melt process. Initially rolled out across Grede plants as Phase 1, with Phase 2 focusing on integrating metallurgy and process controls.

**Tool Preventative Maintenance:** A structured methodology ensuring the peak performance and longevity of manufacturing tools and equipment.

**IoT Software:** A robust, user-friendly platform that harnesses the potential of IoT, facilitating data collection and analysis.

**Industry 4.0 IT and OT (Operational Technology) Alignment:** Embracing the digital, interconnected, and automated paradigm of the Fourth Industrial Revolution to amplify sustainability across diverse industries.



## Grede Quality Strategic Outlook