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**Purpose:** To generate and deliver mechanical design solutions serving the new product introduction function within the Engineering department.

**Reports to:** Lead Mechanical Engineer

**The Role:**

- To develop all aspects of mechanical design solutions for new and legacy products to corporate and International standards.
- Produce detailed design documentation to support validation of design solutions.
- Analyse requirements using the DFMEA process to define test specifications.
- Examination of designs using component level DFMEA process.
- Produce technical documentation for production, installation and service.
- Assess the safety of product designs using Product Safety Hazard Analysis process.

**Qualifications:**

Holds an HNC/Degree (or equivalent) in an engineering discipline relevant to mechanical engineering.

**Knowledge:**

- Knowledge of Rapid prototyping and manufacturing techniques.
- Knowledge of material selection criteria, particularly steels and metals.
- Understanding of FEA tools and techniques.
- Knowledge of Failure Mode and Effects Analysis (FMEA) to component level.
- Understanding of Systems Engineering principles (desirable).

**Experience:**

- Experience in the design and development of mechanical or electro-mechanical systems, preferably which include safety critical elements, machinery design, sheetmetal and fabrication, motor and gearing applications, mechanisms and machine reliability.
- Experience in the creation and application of test specifications to demonstrate design success to requirements.
- Experience producing technical drawings to BS8888 quality standards.
- Experience creating designs with an emphasis on assembly and DFM best practise.
- Experience working within a project structure to time critical deadlines.

**Skills:**

- Proficient in the use of CAD design packages to realise designs (preferably Pro-E/Creo).
- Knowledge of PDM systems to protect and manage the integrity of designs (preferably Windchill)
- Proficient in the ability to calculate and evaluate tolerance stack up in assemblies.
- Proficient practical skills for the production of mechanical prototypes and proof of concepts.
- Proficient in creating technical reports for management review
- Competent in the use of PC tools; Microsoft Word, Excel, PowerPoint, Project.
- Ability to clearly communicate design solutions.

# **Mechanical Engineer – Job Description**

## **Behaviour:**

- Professional behaviour commensurate with representing Stannah at appropriate levels.
- Committed to upholding the Stannah brand values.
- Diligent and detailed approach.
- Committed to working within a team.
- Self-motivated and demonstrates initiative.
- Committed to continuous improvement.
- Effective communication style.
- Responsible attitude to health and safety and regulatory matters.