



## **Job Description**

Job Title: Design Engineer

Exempt/Non-Exempt: Exempt

Location: The Horsburgh & Scott Co.

Reports To: Design Engineering Mngr.

## **Primary Responsibilities**

- Perform engineering functions to support the production of loose gearing and shaft assemblies for both enclosed drive units and ring gear set applications.
- The supported product lines include open (contract) gearing and H&S spare parts, with the detailed scope of supply provided by H&S application engineers and spare parts specialists.

### **These functions will include, but are not expressly limited to:**

- Gear tooth geometry analysis including reverse engineering
- Gear mesh capacity calculations (AGMA ratings)
- Materials and process selection
- Shaft deflection analysis and design of lead modification
- Bearing life analysis and bearing selection
- Establish assembly and testing requirements
- Gear weldment analysis
- Review and approve drawings from designer detailers for release to the shop.
- Enter material requisition text into H&S EPDM system for purchase

## **Secondary Job Functions**

- Point of contact for technical communications (post order) with customers, sales, and field service personnel
- Disposition Nonconforming Material Reports (NMR's)
- Issue Engineering Change Notices (ECN's) when appropriate
- Support shop / assembly when questions or issues come up
- Create detail drawings when necessary

## **Knowledge and Skills Requirements**

- Degree in Mechanical Engineering

- 5 years of working experience with machine design within the gearing industry
- Computer literate with Microsoft Office applications. 3-D modeling experience (Solid Works), BaaN (ERP Systems) or similar and some form of document control software(EPDM) experience a plus
- Ability to work in a team environment and also a solo player
- Exhibit good stewardship of design and cost to meet goals and expectations
- Very good communicator both written and verbally
- Creative thinker and problem solver
- Capable of managing multiple priorities and tasks
- Ability to read and understand blueprints
- Ability to perform essential functions and requirements of the job
- Travel as required

**Responsibilities:**

- No direct reports / staff
- Work to support engineering schedule and H&S on-time performance
- Work to support H&S profitability thru reduced scrap and rework
- Participate in H&S Safety program