

# Soler & Palau-USA

## Design Engineer

---

**Department:** Engineering

**Job Status:** Full Time

**FLSA Status:** Exempt

**Reports To:** Engineering Manager

**Grade/Level:**

**Amount of Travel Required:** 0 – 5%

**Work Schedule:**

**Positions Supervised:** None

### Position Summary:

Reporting directly to the Engineering Manager, the Design Engineer's key role will be leading product development projects from concept through to production. The Design Engineer will use SolidWorks to create accurate parts, drawings, and assemblies of new product designs and existing product redesigns. The engineer will be responsible for analyzing and thinking through new product ideas. Finally, the Design Engineer will use strong verbal and written communication skills to work amongst a team of manufacturing, regulatory, and design engineers to complete projects within given timeframes.

### Principle Duties:

- Will develop detailed design drawings and specifications for HVAC fan products using SolidWorks
- Will assist with prototyping of new designs
- Will support shop floor by making design changes through an ECR/ECN process
- Will update MRP system to support new product design projects and redesigns, (this will include creating new BOMs, updating BOMs, and etc.)
- Will support special order quote requests when needed
- Will support customer service with technical support for complicated customer issues
- Will layout, draw, and reproduce illustrations for reference manuals and technical publications to describe operation of mechanical systems
- Will answer queries from Sales, Purchasing, Manufacturing, and Customer Service as required
- Will work with manufacturing to determine costs of existing designs and new product designs

### Position Qualifications:

- Strong verbal and written communication, organization, interpersonal, and problem solving skills
- Can juggle multiple tasks simultaneously
- Ability to calculate drive selections
- Ability to compute mathematical formulas to assist in the design process of new products
- Knowledge of designing for manufacturability
- Ability to understand complex technical topics
- Knowledge of sheet metal design

### Additional Desired Qualifications:

- Background in motors and electrical system design
- Knowledge of fan testing procedures
- Knowledge of typical fan industry ratings agencies (i.e. UL, AMCA, CSA, HVI)
- Experience using SolidWorks Simulation (formerly CosmosWorks)

# Soler & Palau-USA

## Design Engineer

continued,

### Education:

- B.S. in Mechanical Engineering

### Experience:

- 2-5 years design experience in a manufacturing environment
- Experience using a MRP system

### Skills & Abilities

- Expertise using Microsoft Office and SolidWorks

### Physical Demands

#### Physical Abilities

Stand	Occasionally
Walk	Occasionally
Sit	Frequently
Handling/Fingering	Frequently
Reach Outward	Occasionally
Reach Above Shoulder	Occasionally
Climb	Not Applicable
Crawl	Not Applicable
Squat or Kneel	Not Applicable
Bend	Occasionally

#### Lift/Carry

10 Lbs. or less	Frequently
11-20 lbs	Frequently
21-50 lbs	Occasionally
51-100 lbs	Not Applicable
Over 100 lbs	Not Applicable

#### Push/Pull

12 lbs or less	Frequently
13-25 lbs	Occasionally
26-40 lbs	Not Applicable
41- 100 lbs	Not Applicable

Constantly = Occupation requires this activity more than 66% of the time (5.5+hrs/day)

Frequently = Occupation requires this activity from 33%-65% of the time (2.5 – 5.5 hrs/day)

Occasionally = Occupation requires this activity up to 33% of the time (0-2.5 hrs/day)

Not Applicable – Activity is not applicable to this occupation

### Other Physical Requirements

#### **Vision (Near, Color)**

**Ability to wear Personal Protective Equipment (PPE) – safety glasses, hearing protection, and/or gloves**

Prepared by: \_\_\_\_\_

Date: \_\_\_\_\_

Approval Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Approval: \_\_\_\_\_

Approval: \_\_\_\_\_

The company has reviewed this job description to ensure that essential functions and basic duties have been included. It is not intended to be construed as an exhaustive list of all functions, responsibilities, skills and abilities. Additional functions and requirements may be assigned by supervisors as deemed appropriate.