

Job title	<i>Die Forging Engineer</i>
Reports to	<i>Manager of Forging Die</i>

Job purpose

The Die Forging Engineer position will be responsible for providing technical support and guidance to improving the forging process in and around automation systems and tooling. The Die Forging Engineer will need to lead the development of forging processes and progressive die layouts to meet the needs of new models, safety, quality, cost, throughput, and continuous improvement.

Duties and responsibilities

- Performs work requiring advanced knowledge of forging and die engineering.
- Responsible for supporting CAD/CAM operations and programming.
- Lead the creation of die CAD developments and implementations.
- Responsible for supporting equipment and tooling activities associated with the forging process.
- Responsible for Bolster/ Retainer management and improvement (cost, part life, quality).
- Responsible for improving and maintaining die tool path, especially focusing on DK65M+Nitride die cost and part life improvement.
- Responsible for improving tool life and cost (T/F arm, T/F fingers, bolster related parts, etc.)
- Analyzes, interprets, and makes deductions from varying facts or circumstance based on the forging and die process.
- Discusses with die shop, maintenance, and quality department for engineering improvements.
- Studies countermeasures for not only quality but also cost mainly by die design change.
- May require visits to customers with quality department members.
- Observes machining condition of our forging and capable of discussing and explaining how to improve machining.
- Develop and maintain work instruction documentation.
- Develop and maintain process documentation (control plans, PFMEA, Tooling Sheets, etc.).
- Review, analyze, design, and implement revisions to improve existing processes for increased efficiency (throughput, tool life, etc.).
- Review customer feedback and develop permanent corrective actions to improve die design quality.
- Forging Die Engineer will receive calls or messages from floor operations at night or on holidays.
- May need to work nights or long shifts due to troubles and trials.
- Proactively addresses and corrects all unsafe behaviors and conditions.

Qualifications

Qualifications include:

- Bachelor's degree in manufacturing engineering, mechanical engineering, or related program.
- Proficiency in computer utilization, including the use of CAD/CAM software (NX, Catia, Work NC and FFCAM).
- 5+ years of forge, manufacturing, or die engineer is required.
- Experience in a forging environment is required.
- Hands on experience in tool and die methods is required.
- Ability to manage projects until completion with minimum supervision.
- Strong decision-making and communication skills required.
- Proficient in Microsoft Office suite.

Working conditions

Requires working in open office with occasional visits to shop floor.

Physical requirements

See Physical Demands Requirements

Direct reports

None

Quality Authority Level

High – Overall authority to make any quality decisions and completely shut down operations.

Professional Exemption

Earns no less than \$684 / wk.

Performs work requiring advanced knowledge predominantly intellectual

Consistently exercises discretion and judgement

Advanced knowledge in a field of science or learning customarily acquired by prolonged course of specialized intellectual instruction

BA or advanced knowledge in related field

Approvals:

Human Resources: _____

Date: _____

Director: _____

Date: _____

President: _____

Date: _____

Analysis of Physical demands of:

Physical Demand Level: X Light Medium Heavy

Physical Requirements (include weight where applicable):

	Occasionally	Frequently	Constantly	Weight
Sit			X	
Stand	X			
Walk	X			
Lift	X			10 - 30 LBS.
Carry	X			10 - 30 LBS.
Reach	X			
Bend / Twist	X			
Grip	X			
Push / Pull	X			
Squat	X			
Climb	X			
Above Head	X			
Kneel	X			
Stoop	X			

Can job duties be modified to accommodate prescribed work restrictions? **Not generally, however, will evaluate each incident based on type of restrictions and length of time. Decision based on work currently available.**

Tools / Machines Used: Keyboard, computer, phone, hand writing notes and filling out documents as needed. May plan, organize, communicate and implement special department events. While performing the duties of this job, Team Member is regularly required to sit, walk and stand; talk or hear, both in person and by telephone; use hands repetitively to finger, handle, feel or operate standard office equipment; reach with hands and arms; and lift up to 30 pounds. Specific vision abilities required by this job include close vision, distance vision and the ability to adjust focus.

Prepared by: _____ Date: _____

 Yes, Team Member is safe to work with the above job duties

 No, the Team Member is not safe to work with the above job duties. Please state what the Team Member is capable of doing along with duration of time and any weight restrictions (i.e. how long they can stand, how much they can lift, can they climb, bend, twist, grip, squat, etc.) How long will they need accommodations?

Physician Signature: _____ **Date:** _____

Physician's Name (*Please PRINT): _____ **Phone #:** _____

Name of Physician's Practice: _____

Address of Practice: _____

Physician's Note: _____

Light Work: Exerting up to 20 lbs. of force occasionally, and or up to 10lbs. frequently.

Medium Work: Exerting up to 20 – 50 lbs. of force occasionally and or 10 to 15 lbs. frequently, and or up to 10 lbs. constantly to move objects.

Heavy Work: Exerting up to 50 – 100lbs. of force occasionally, and or 25 - 50 lbs. frequently, and or 10 - 20lbs. constantly to move objects.

Occasionally: Activity exists less than 1/3 of the time.

Frequently: Activity exists for 1/3 or 2/3 of the time.

Constantly: Activity exists 2/3 or more of the time.