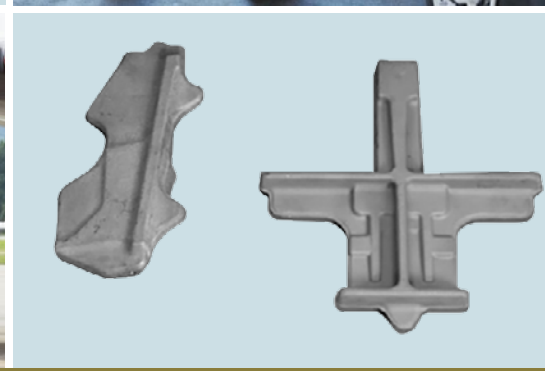
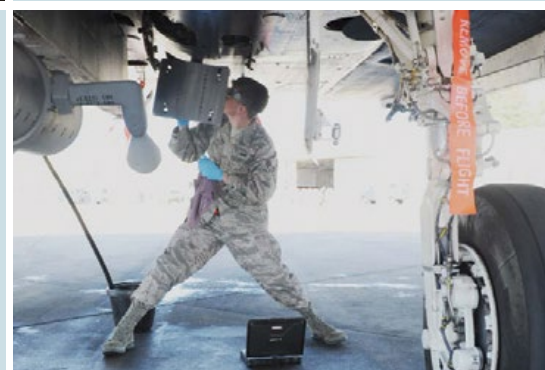


# CALIFORNIA

DROP FORGE



## California Drop Forge Overview

— OVER —  
**100**  
YEARS  
— OF —  
SUPERIOR  
PERFORMANCE  
—

## ABOUT CALIFORNIA DROP FORGE

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*Founded in 1901*

*72,000 sq-ft facility located in  
Los Angeles, California*

*One of the most experienced drop forge  
facilities in the United States*

*California Drop Forge (CDF) produces closed-die forgings and machined components for aerospace, defense, power generation, marine and medical industry applications.*

*CDF is a leader in manufacturing precision forgings from titanium, nickel base, stainless steels, aluminum and other exotic metal alloys, ranging from 2 lbs to 1,000 lbs.*

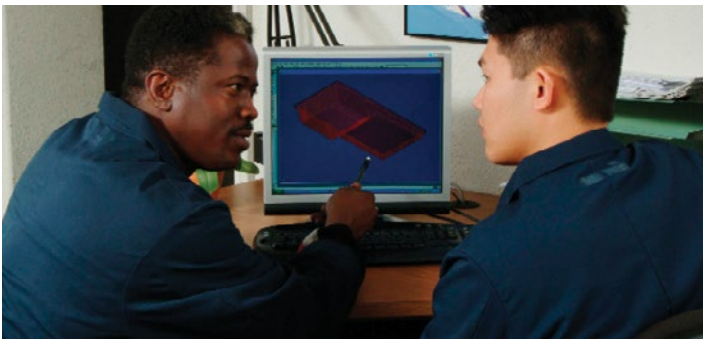


## CAPABILITIES



### ENGINEERING

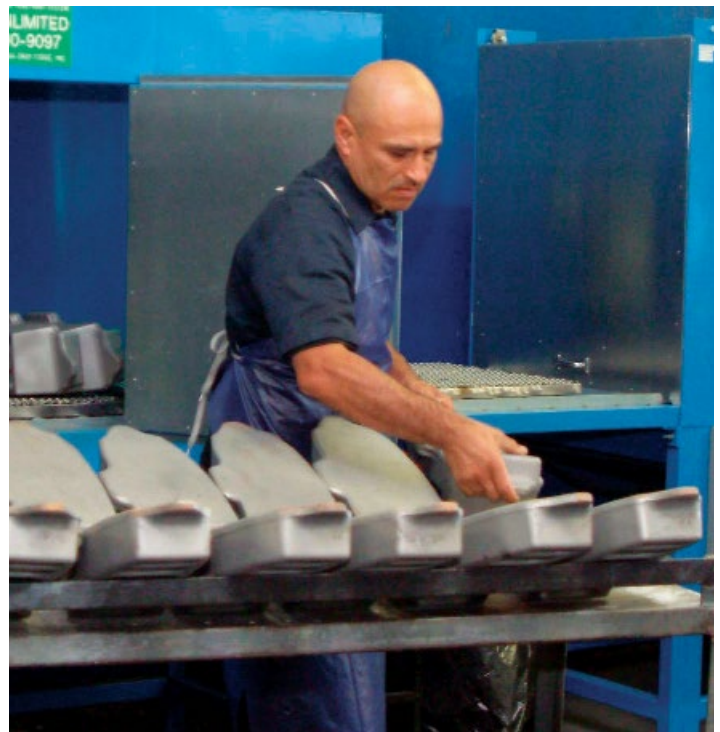
- CDF's engineering team utilizes the latest CATIA and AutoCAD software for forging and tooling designs.
- Expert metallurgists use deformation / simulation software to calibrate and predict how various metals will react during forging operations, enabling the team to predict grain-flow, determine metal strain rates, and calculate metal temperature at the forge finishing stage.



### MANUFACTURING

- CDF operates two forge presses and six steam hammers, ranging in size and mass from 2,500 lbs up to 35,000 lbs.
- Complete in-house tool manufacturing
- Magnetic particle, fluorescent die penetrant, and layout inspection stations
- State-of-the-art CNC machining

**CDF IS CAPABLE OF PRODUCING PARTS UP TO 62" LONG BY 33" WIDE BY 12" THICK, DEPENDING ON MATERIAL TYPE AND CONFIGURATION.**



## PRODUCTS

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### FORGED PRODUCTS:

**CALIFORNIA DROP FORGE PRODUCES A WIDE VARIETY OF PARTS FOR MILITARY AND COMMERCIAL APPLICATIONS WITHIN THE AEROSPACE AND MEDICAL INDUSTRIES, INCLUDING:**

- Aircraft Structural Parts
- Auxiliary Power Unit Components
- Compressor Wheels
- Discs
- Engine Mounts
- Hubs
- Impellers
- Jet Engines
- Land-Based Turbines
- Landing Gear Components
- Pump Housing
- Rotary Engine Parts
- Waspaloy Seals

### MATERIALS FORGED:

- Titanium
- Nickel Based Alloys
- Stainless Steels
- Low Alloys Steel
- Aluminum
- Various Other Exotic and Customer-Specific Alloys

### POST FORGING OPERATIONS:

- Heat Treatment
- Non-Destructive Testing, Magnetic Particle and Liquid Penetrant
- Metallurgical Testing
- Rough and Finished Machining





## QUALITY ASSURANCE & CUSTOMER SERVICE

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California Drop Forge maintains the highest level of quality manufacturing possible, utilizing manufacturing review efforts such as Lean Six Sigma and internal audits. CDF has earned AS9100 and ISO 9001: 2000, as well as NADCAP certifications; and our calibration system conforms to ANSI-NCSL Z540-1.

Whatever the need, whether forged or machined components ready for assembly, CDF is committed to on time delivery and outstanding customer service.



## FORGING EQUIPMENT

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### STEAM-POWERED HAMMERS:

- 6 Hammers up to 35,000 lbs

### PRESSES:

- 2000 ton Clearing Hydraulic
- 40 ton Minister Mechanicals
- 700 ton Toledo and Maxi
- Aluminum Rotary Furnace
- Gas Slot Furnaces



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