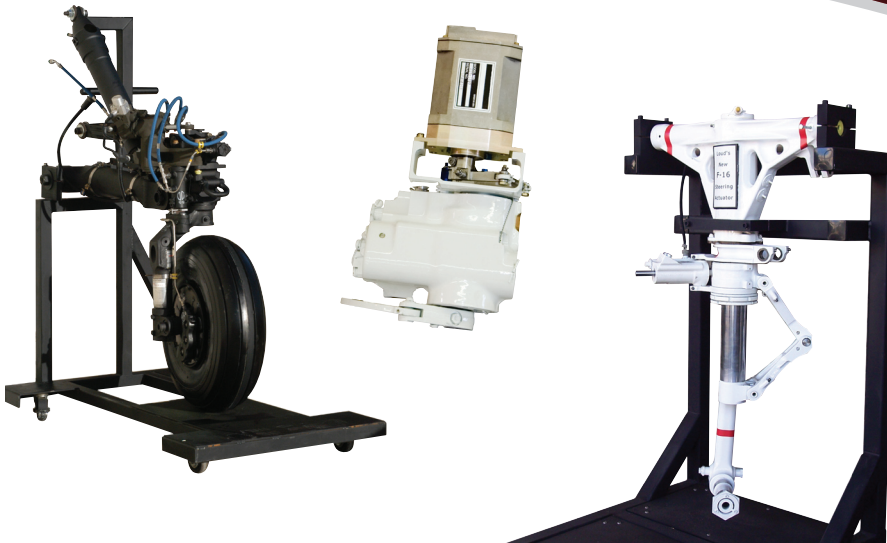


# Loud Engineering & Manufacturing

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Loud Engineering & Manufacturing, a CIRCOR Aerospace heritage brand, is a leading designer and manufacturer of actuation and landing gear systems and related components. Loud has worked with all the major airframers supporting both fixed-wing aircraft and rotorcraft since 1969.

Major programs include new, fully-dressed landing gear for the CH-47 "Chinook" helicopter, as well as complete repair and remanufactured gear assemblies, overhauled components, and spare parts for the CH-47 & CH-46 helicopters, steering actuators for the Global Hawk UAV, landing gear and door actuation products for the V-22, and landing gear components for the F-16.

Loud Engineering & Manufacturing has a license from Boeing to use certain Boeing proprietary rotorcraft data in manufacturing CH-47 landing gear spare parts, and to support the overhaul and repair of CH-47 landing gear - allowing Loud to support the CH-47 fleets worldwide. Working in response to a request from the U.S. Air Force, Loud Engineering & Manufacturing has developed a new, improved nose wheel steering actuator for the F-16 Fighter. The new actuator will significantly reduce aircraft maintenance time and cost for F-16 operators.

Loud's engineers have an extensive history of developing actuators for various aircraft systems, including door and landing gear deployment, as well as other specialized actuation applications for mission and flight critical systems. Loud also excels in overhaul activity, working on a wide range of military aircraft while maintaining its FAA Repair Station Certification (JN3R611L) for support of commercial aircraft.

## PRODUCTS / SERVICES

- Manufacture of aircraft landing gear and components (complete landing gear ship sets and all related components as spares)
- Overhaul/repair of aircraft landing gear and major components
- Full assembly and hydraulic testing capabilities
- Engineering design and product design improvement services

## KEY PLATFORMS

- CH-47 *Chinook*
- V-22 *Osprey*
- CH-46 *Sea Knight*
- F-16 *Fighting Falcon*
- Global Hawk UAV
- Many mature and proven platforms for difficult-to-make parts, including F-5, T-38, and KC-135

## QUALITY CERTIFICATIONS

- ISO 9001:2000
- AS9100:2004
- Boeing D6-82479
- Nadcap Accreditation

