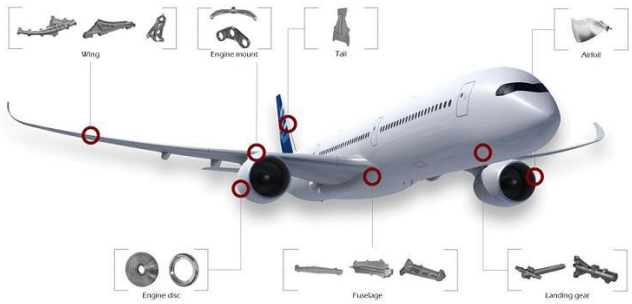
FORGING

High-Strength Aluminum and Magnesium Forgings

FORGING | **ALUMINUM & MAGNESIUM**

Paligen Technologies is a qualified manufacturer of High-Strength Aluminum and Magnesium forged components. Our 110,000 square-foot manufacturing space located in Garland, Texas has been home to some of the finest forging equipment on US soil for more than 75 years. Aluminum and magnesium are both considered versatile materials with applications spanning across all market sectors.







PALIGEN™ TECHNOLOGIES

Aluminum & Magnesium Forging

CAPABILITIES

- Conventional and precision closed and open die forgings
- Concurrent Engineering with customer
- Digitally controlled hydraulic presses; 1,500–12,000 tons
- Forging Range: 800 in^2 PVA, up to 750 lbs (depending on final geometry)
- Cold compression stress relief per T7452
- Two-solution heat treatment including Age; process up to 10,000 lbs of racked parts (NADCAP Approved)
- Part etching and cleaning
- CNC machining (rough)
- Dye penetrant inspection (NADCAP Approved)
- Metallurgy, Metrology, and Engineering (NADCAP Approved)

ALLOYS

- 2XXX Series: Processed to T4 and T6
- 4XXX Series: Processed to T6
- 5XXX Series: Strain hardened to various H Tempers
- 6XXX Series: Processed to T6 and T652
- 7XXX Series: Processed to T6, T73, T74, T652, T7X52
- MAG ZK60A: Processed to T5
- MAG AZ80A: Processed to T5

CERTIFICATIONS

- AS9100D Certified
- NADCAP Accreditations

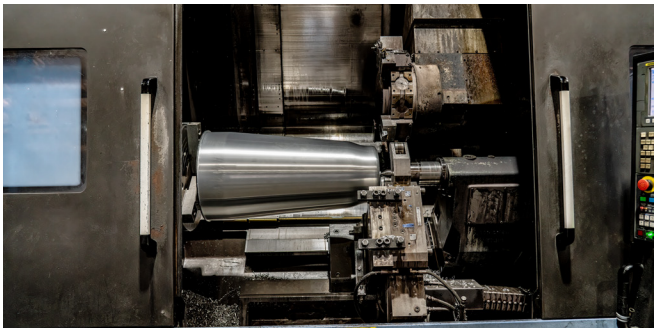
QUALITY ASSURANCE

Our quality assurance department has full-dimensional inspection capabilities, state-of-the-art coordinate measuring machines, and laser-scanning equipment for mapping and comparison to customer models.

IN-HOUSE TESTING - METALLURGY

Our in-house testing facility offers mechanical testing, micro- and macrostructural examination including grain flow, hardness testing, electrical conductivity testing, fluorescent penetrant inspection, and chemical composition verification in accordance with the most recent industry and customer specifications.





2026.09

PALIGEN™ TECHNOLOGIES

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