



Multi-mission
flight readiness
year-round.

Carson Helicopters has been in operation for over 60 years and holds over 35 STCs, with our experience on working with the S-61, we can incorporate cutting-edge modifications and execute full overhauls.

Industry Functions



Industry Divisions

MRO

Complete & Light Overhaul
of all components

Manufacturing

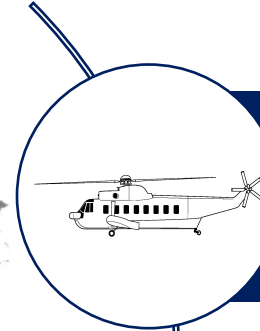
Full in-house testing and
parts production

Engineering

Research and design to
certification

Our company has provided aircraft solutions for commercial and military operators worldwide.

Global Market Reach



Multiple Divisions

- Maintenance & Overhaul
- Research & Design
- Manufacturing



Military & Commercial Operators

- Worldwide outreach
- Multi-mission usability



Leadership Team



Clayton Carson
Vice President



Frank Carson
President



Jordan Carson
General Counsel



Terril Carson
VP Head of Operations



Rod Manogue
Head of Operations



Thaddeus Sheard
Head of Engineering

With over 35 STCs, our team runs a multi-disciplinary Part 145 Repair Station, spanning S-61 aircraft original, upgraded and modified components and modifications

Aircraft Sales

Carson currently carries a flight ready standard fleet of S-61Ns,
Short S-61s, & Super SH-3Hs

Aircraft Modifications

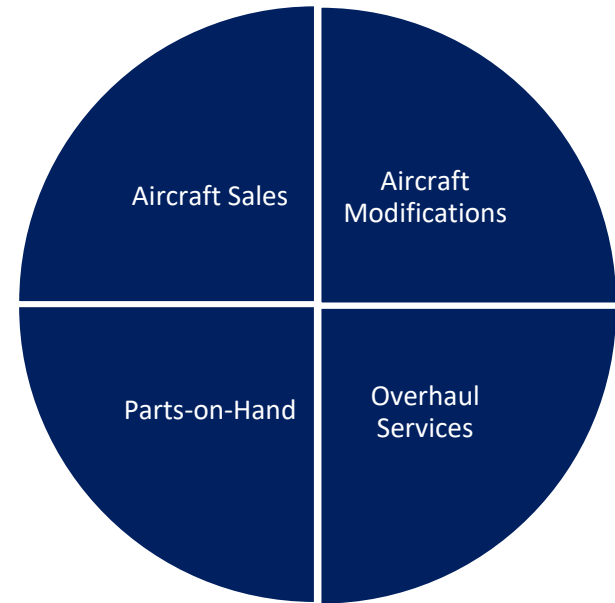
With certified modifications to the S-61 and its variants, Carson offers unique designs that significantly increase the aircraft's performance and usability

Parts-on-Hand

Currently, we have over 30,000 unique aircraft parts. From individual components to full assemblies, we are equipped to complete all services to the S-61

Overhaul Services

From inspection to certification, our Maintenance, Repair, & Overhaul team can complete dynamic and non-dynamic overhauls on all S-61 assemblies.



Certifications



Carson's FireKing is an upgraded version that equips the helicopter with several advancements to improve its safety and performance.

Aircraft Highlights

- 20,500 lbs. Max Gross Weight
- 10,000 lbs. External Load
- 131 kt Cruise Speed
- 12,000 ft Take Off & Landing
- 650 Mile Range
- 1,000 Gallon Water Tank

Foam Capacity

113 liters

Tank Fill Time

45 seconds

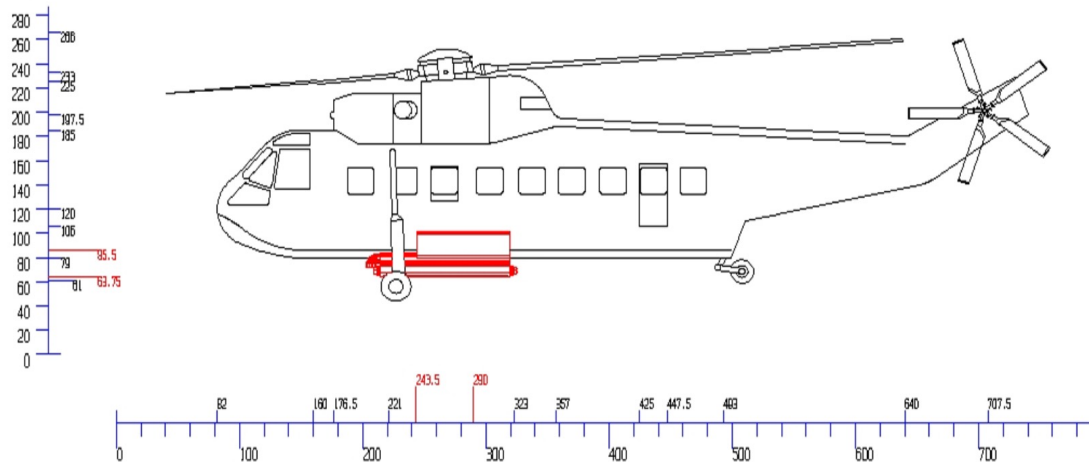
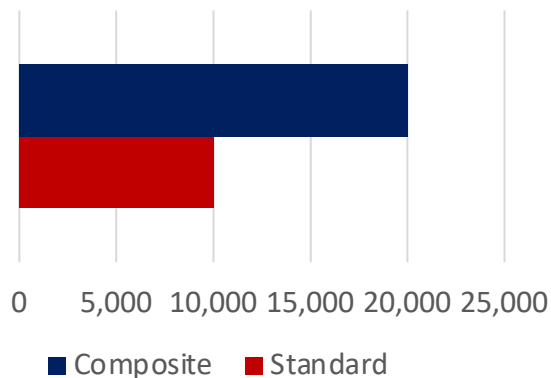
Coverage Settings

8

Capacity

3,785 liters

Blade Life



Sea level to 14,000 feet MSL



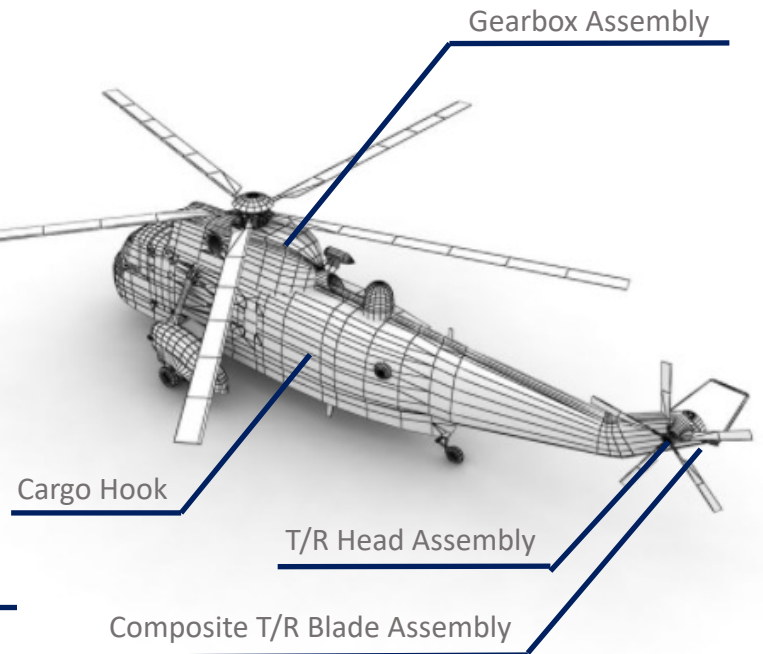
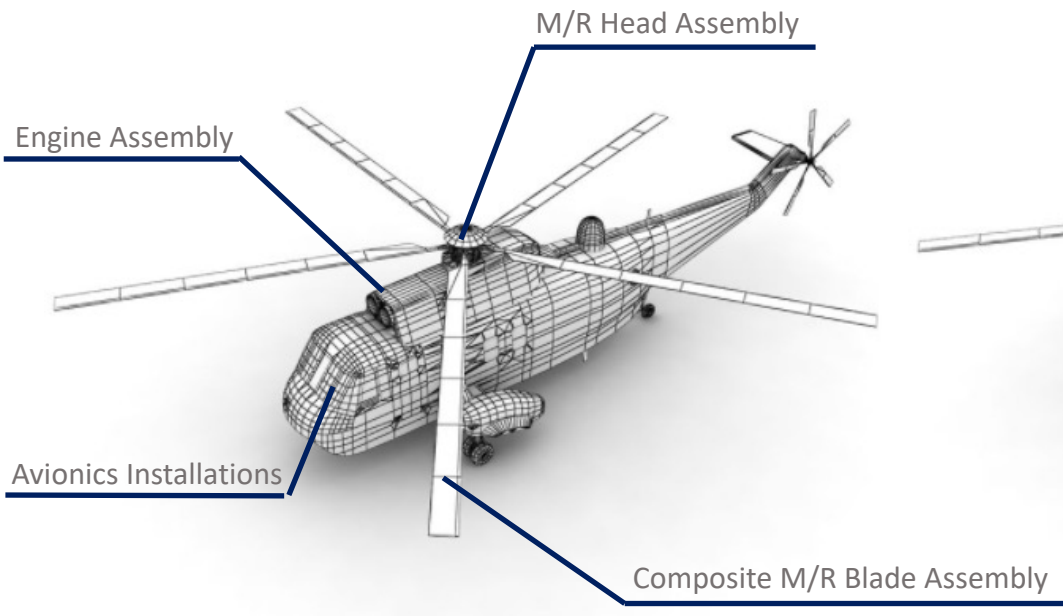
Part Sales Breakdown

Carson offers individualized parts and complete part assemblies for specific needs.

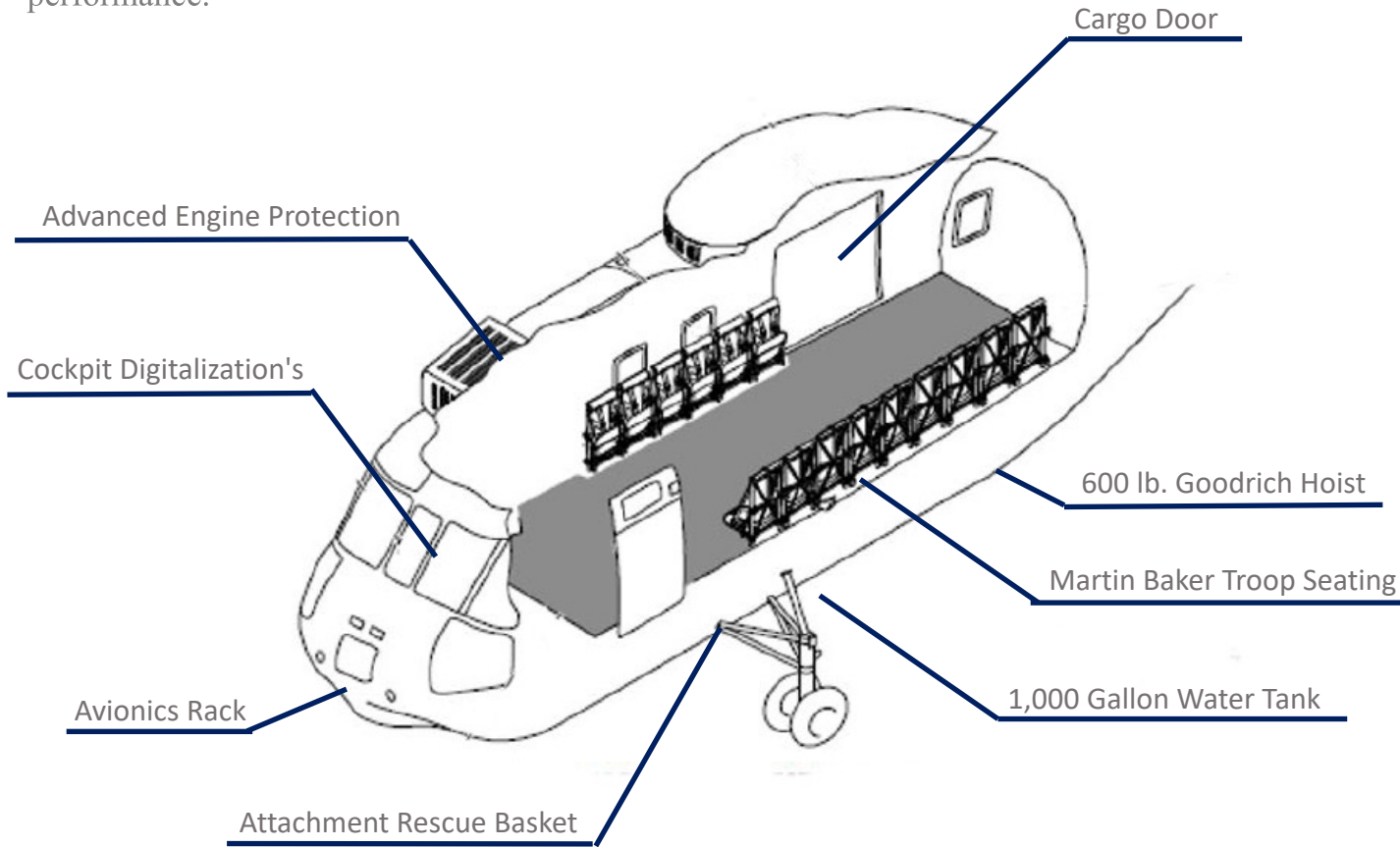
New

Repaired

Overhauled



Carson's aircraft modifications can be installed on different S-61 variants and work to increase usability, safety, and operative performance.



Aircraft Advancements

Series of ground and flight tests to ensure safety and durability

Increased serviceability and easy installation/removal

Service and inspection provided by Carson Helicopters

Carson's S-61 modifications equipped the helicopter with abilities to complete year-round infrastructure. All variants can be equipped with Carson Composite Blades.

S-61 Short



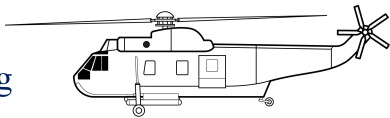
- Shortened fuselage to accommodate increased lift
- Cargo door for added accessibility

S-61N



- Sponsons for water landing
- Advanced flight symbology

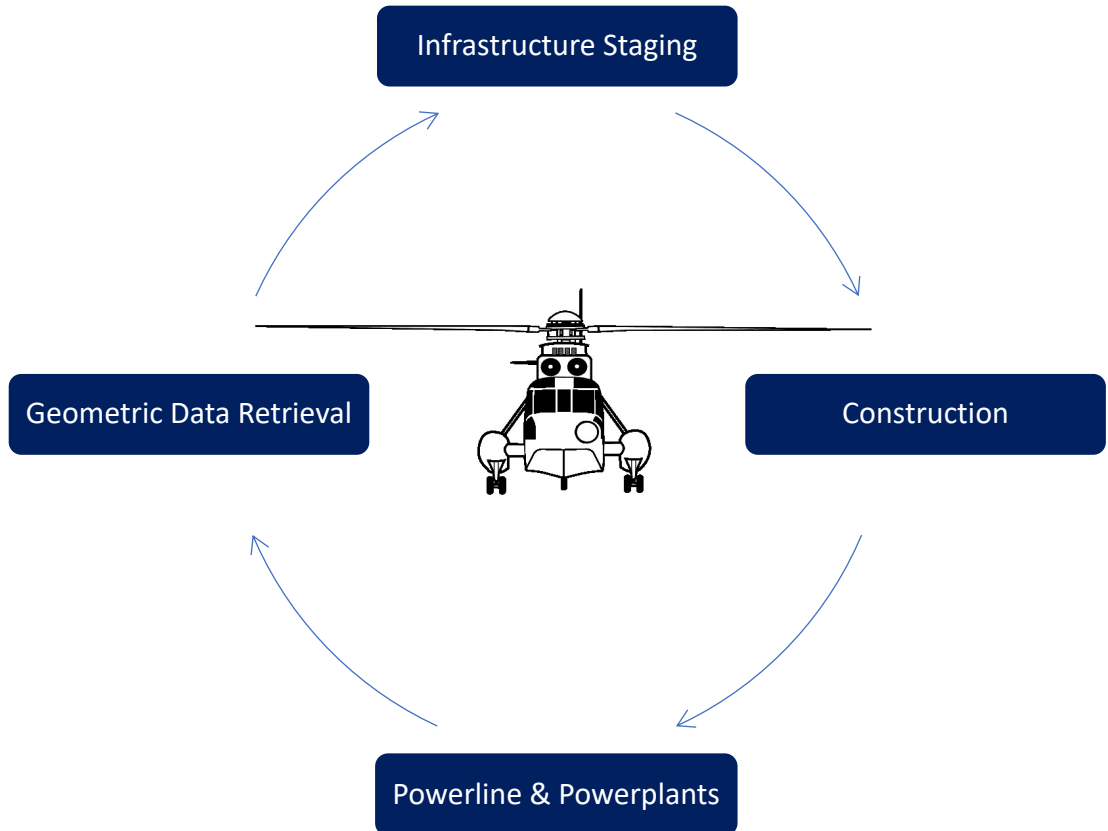
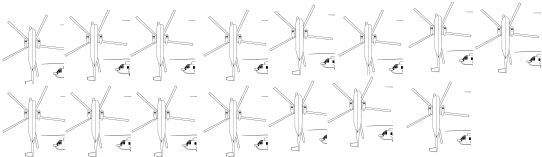
FireKing



- Firefighting and heavy lift operations

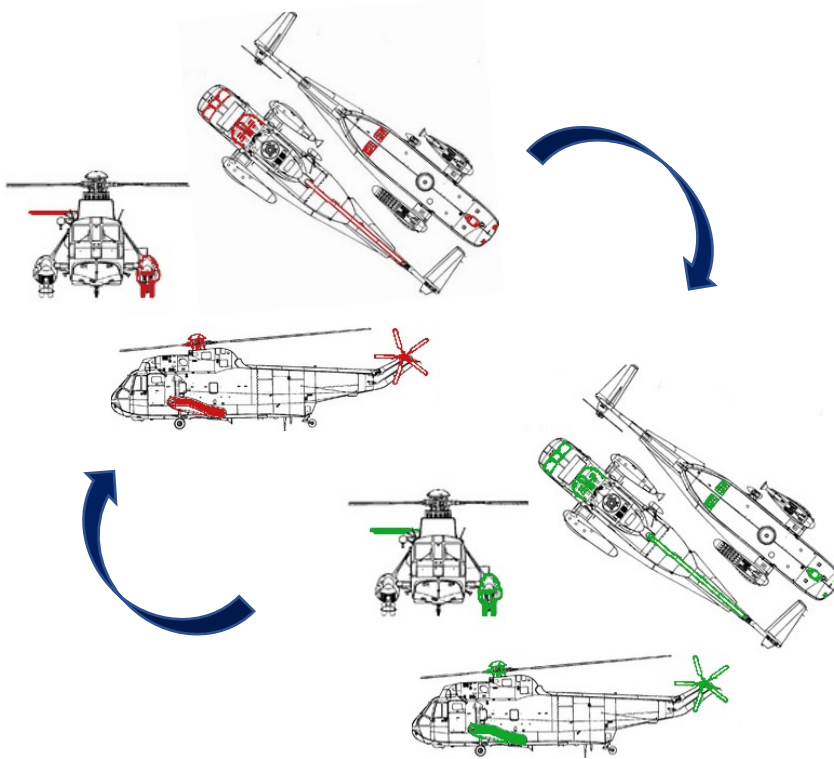
Fleet Size:

15



Exchange Program

In addition to our inventory of new and used parts, Carson offers a specialized exchange program for existing assemblies.



Unserviceable Parts

Carson will acquire damaged parts if fixable and supply operators with new or overhauled assemblies.

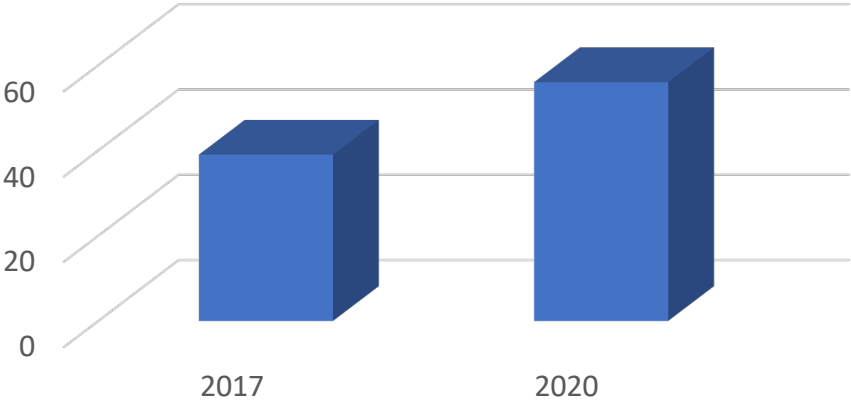


Replacement Parts

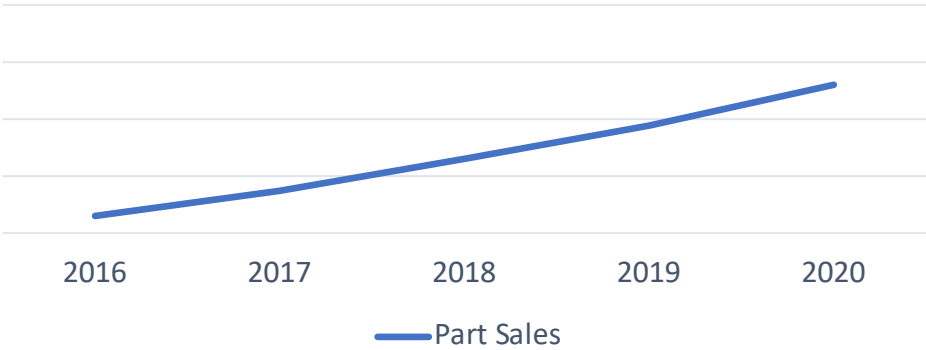
Carson will replace the damaged component with a new, reliable part at a discounted exchange price

Carson has expanded its part sales operations; our goal is to continue growth in the international market.

Annual Growth of Sales Partners



Part Assemblies Sold

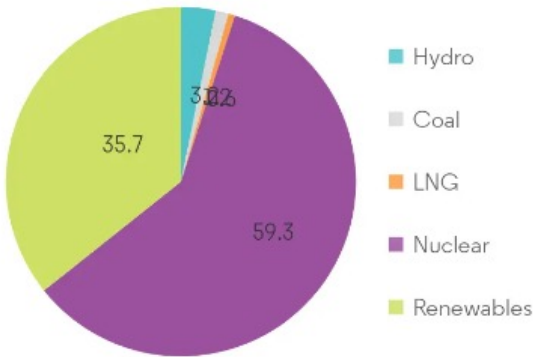


Overhaul & Manufacturing

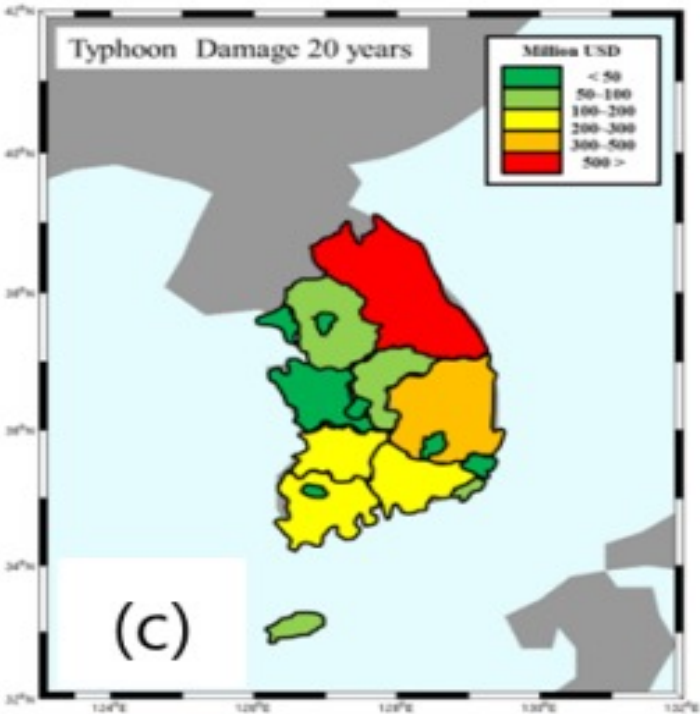
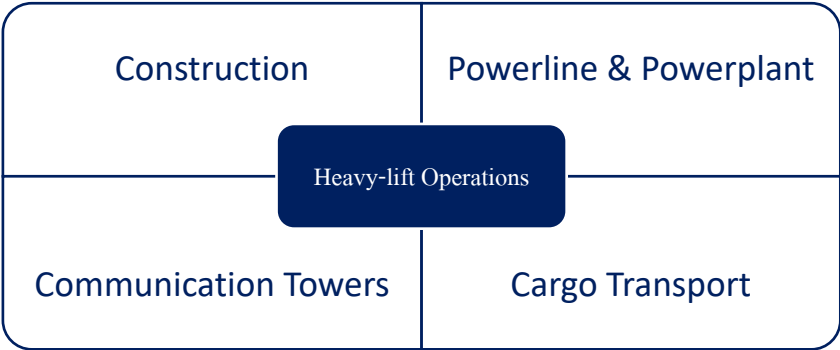
- 1 Carson’s maintenance, repair, and overhaul has over 60 years of experience in aviation overhauls.
- 2 Full in-house manufacturing capabilities has enabled growth in quality and efficiency.
- 3 Our maintenance and overhaul services will continue to grow with Carson’s experience and project base.

As the operations of vertical-lift vehicles increase, the S-61 will provide increased infrastructure development and disaster relief..

Distribution of total energy production in South Korea, By Source in %, 2018



Source : Mordor Intelligence



Search & Rescue

Water Landings

Firefighting

Our innovations have worked to expand the S-61s flight envelope, increasing its use for several industry functions.



Multi-mission aviation
solutions for a wide-range
of operators

Market growth and function
through leading aviation
solutions.

Performance Advancements

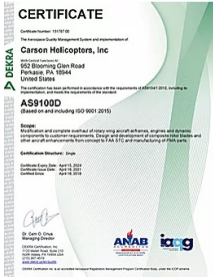
- Expansion of Flight Envelope
- OGE Performance increase of 1750 lbs
- Improved ballistic tolerance & safety
- Increased tolerance against erosion

Field Service History

U.S. Presidential Transport
UK Royal Navy
US Dept of State
VIH Aerospace
AAR Airlift
Construction Helicopters
Various Commercial Operators

To deliver cutting-edge solutions for S-61 aircraft, our team has mastered methods of servicing operators worldwide.

Competitive Landscape				
All In-House	✓	✗	✗	✗
60+ Years Experience	✓	✗	✗	✗
30+ Years S-61	✓	✗	✗	✗
Multi-disciplinary	✓	✗	✓	✓
Global Market Reach	✓	✓	✓	✓
Exchange Program	✓	✓	✗	✓



AS9100D



FAA Part 145



Sikorsky-FSA

Broad understanding of S-61 assemblies

Shops specializing in all aircraft specifications

Since establishment in 1957, Carson has continued to grow and expand its capabilities, notably with the S-61 and its variants. We care about the quality of our product and want to aid operators in safe and efficient flight.

Ensure

Carson can ensure adequate supply of spare components to keep the aircraft flying to be stored on site and available for consumption to guarantee minimal downtime.

Support

Carson can support and cover the costs of the aircraft for any non-scheduled maintenance for airframe and avionics components excluding dynamic components and engines.

Component Warranty

- 6 months
- 500 flight hours





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