SIKORSKY S-92A+™ Offshore Helicopter
### Specifications

**Passenger Transport**
- Maximum Seats: 2 pilots + 19 passengers
- Cabin Height: 6’0” / 1.83m
- Cabin Volume: 700 ft³ / 19.82 m³
- Baggage Volume: 140 ft³ / 4.0 m³
- Baggage Area Weight Limit: 1000 lb / 454 kg

**Weight**
- Maximum Takeoff Weight (internal load)*: 27700 lb / 12564 kg
- Base Aircraft Empty Weight: 15662 lb / 7104 kg
- Useful Load (base config. internal load): 12038 lb / 5460 kg
- Maximum Takeoff Weight (external load): 28300 lb / 12836 kg
- Maximum Cargo Hook Load: 8000 lb / 3628 kg

**Fuel**
- Sustainable Aviation Fuel
- Internal Fuel Sponsons: 760 gal / 2877 L
- Removable, Internal Auxiliary Fuel Tanks: 2 x 210 gal / 2 x 795L

**Powerplant:**
- (2) General Electric CT7-8A6
- Uninstalled, sea level, ISA, 105% Nr unless noted
- Dual Engine Takeoff Power, 5 minutes: 2695 shp / 2010 kW
- Dual Engine 30-minute Power: 2637 shp / 1966 kW
- Dual Engine Maximum Continuous Power (MCP): 2329 shp / 1737 kW
- OEI 30-second Power (100% Nr): 2845 shp / 2122 kW
- OEI 2-minute Power (100% Nr): 2684 shp / 2001 kW
- OEI Continuous Power (100% Nr): 2637 shp / 1966 kW

**Performance**

**Speed**
- VNE: 165 kts
- Maximum Cruise Speed: 151 kts
- Long Range Cruise Speed (VLRC): 136 kts

**Range**
- Main Fuel, No Reserve: 547 nm / 1013 km
- Average Fuel Flow: 1270 lb/h / 576 kg/h
- Endurance, No Reserve: 5.21 hr

**Operating Limits**
- Temperature Range: -40 °C to ISA+35
- Max Wind Speed for Rotor Start: 55 kts
- Icing: RPS Certified
- Flotation: Sea State 6 Floats Certified

### Aircraft Dimensions

- **Cabin Length:** 20 ft / 6.1 m
- **Cabin Width:** 6.6 ft / 2.0 m
- **Cabin Area:** 128 ft² / 11.9 m²
- **Cabin Volume:** 700 ft³ / 19.8 m³

**Fuselage:** 20’’ / 5.1m
- **Upper Ramp:** Nominal door open position 6’
- **Lower Ramp:** 12’’ / 3.66m
- **Sliding Door:** 3’’ / 0.91m

**Operative Height:** 12’’ / 3.05m
- **Height:** 14’’ / 3.66m
- **Wide Body:** 17’’ / 4.32m
- **Height:** 17’’ / 4.32m
- **Width:** 14’’ / 3.66m

**Engines:**
- **Power:** 11’’ / 2.8m
- **Height:** 11’’ / 2.8m

**Wings:**
- **Span:** 36’’ / 9.14m
- **Height:** 6’’ / 1.83m
- **Pressure:** 6’’ / 1.83m

**Winglets:**
- **Span:** 34’’ / 8.64m
- **Height:** 6’’ / 1.83m
**S-92A+ Cabin Layouts**

**Nineteen (19) Passengers**

**Sixteen (16) Passengers with Single Internal Auxiliary Fuel Tank**

**Thirteen (13) Passengers with Dual Internal Auxiliary Fuel Tanks**

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**Cockpit Instrument Display Panel**

1. Master Caution / Warning Panels
2. Standby Altimeter, Airspeed, and Attitude Indicator with Battery Backup Switches
3. Engine Fire Panel
4. Primary Flight Displays (PFDs)
5. Multi-Function Displays (MFDs)
6. 5th MFD (Optional)
7. Lighted Approach Plate Holders (folded position shown on left)
8. Flight Director Control Unit
9. Digital Clock
10. Radio Tuning Units RTU 4210
11. Display Control Units
12. Honeywell IntuVue™ RDR-7000 Weather Radar System Control Panel
13. Universal FMS UNS-1Espw
14. Multi-Function Slew Controllers (optional)
15. Reversion Control & Radio Guard Panel
16. AFCS Control Panel
17. OEI Training Panel
18. Landing Gear Control Panel
19. Remote Instrument Control Panel
20. Second Universal FMS UNS-1Espw (optional)
21. Parking Brake
S-92A+ Offshore Features

PROPULSION
- Two (2) CT7-8A6 Turboshaft Engines with Axial Inlet Particle Separator (IPS) and Modern Electronic Engine Control (MEEC) with OEI Training Mode and EICAS Display
- Honeywell Auxiliary Power Unit (APU)

TRANSMISSION
- Phase IV Main Transmission with Auxiliary Lubrication System, rated at 4,170 shp in Dual Engine Operation
- Intermediate and Tail Gearboxes

ROTOR SYSTEM
- Fully Articulated Main Rotor Head with Titanium Hub and Lightweight Fairing
- Bifilar Vibration Absorber
- Four (4) Composite Main Rotor Blades, Swept and Tapered Anhedral Design
- Bearingless Flexbeam Four (4) Bladed Tail Rotor System
- Lightning Strike and Leading-Edge Abrasion Protection
- Rotor Blade Ice Protection System (RIPS) Provisions
- Rotor Brake

AVIONICS
- Four (4) Collins Aerospace 6” x 8” portrait Multi-Function Displays (MFD)
- Universal Avionics UNS-1Espw Flight Management System (FMS) with single SBAS GPS and Multi-Mission Management System (MMMS)
- Dual Digital 4-Axis Automatic Flight Control System (AFCS)
- Honeywell IntuVue® RDR-7000 Weather Radar System
- Traffic Alert and Collision Avoidance System, TCAS II
- Honeywell MX XXI Enhanced Ground Proximity Warning System (EGPWS) with Offshore HTAWS
- SkyTrac Systems ISAT-200 Flight Following System with Cockpit Control Panels and Voice Capability
- Two (2) Collins Aerospace Air Data Computers (ADC)
- Two (2) Litel LCR-100 Attitude Heading Reference Systems (AHRS)
- Two (2) Collins Aerospace VIR-4000 ADF/VOR/ILS/MKR Navigation Receivers
- Mode S Transponder with ADS-B Out
- Honeywell AA-300 2500 ft Radio Altimeter
- DME-4000 Navigation Receiver
- Analog Intercommunication System (ICS) with three (3) Cobham 380-014 Audio Select Panels
- Two (2) Collins Aerospace VHF-4000 VHF/AM Transceivers
- Two (2) Collins Aerospace RTU-4210 Radio Tuning Units
- Passenger Briefing System and Page PA/Chime Amplifier
- Independent Standby Instruments for Attitude, Airspeed, and Heading
- Two (2) Master Warning Panels and Davtron Digital Clock
- Tail-Mounted External Camera with Forward View

HEALTH & USAGE MONITORING AND RECORDING SYSTEMS
- Collins Aerospace Health and Usage Monitoring System (HUMS) with Blade Track Camera
- Curtis-Wright MPFR with 90-day ULB and Independent Power Supply (IPS)
- Curtiss-Wright Fortress 757 MPFR with Airborne Image Recording System (AIRS)

FLIGHT CONTROL SYSTEM
- Two (2) Independent 4000 psi Hydraulic Systems & Independent Auxiliary Hydraulic System
- Pilot and Copilot Position Collective Grip, Cyclic Grip and Tail Rotor Yaw Pedals

AIRFRAME
- Gross Weight Expansion to 27700 lb / 12564 kg with LifePlusTM Component Retirement Times
- Right Cabin Clamshell Door with Airstair and Handrail
- Full-width Aft Entry with Hydraulically Powered Lower Ramp and Manually Operated Upper Door
- Jettable Double Pane Cabin Windows
- 200 psf Wide-Aisle Passenger Floor with Floor Mat
- Two (2) Cockpit Emergency Exits and three (3) Cabin Emergency Exit Hatches
- Fully Retractable, Energy-Absorbing Tricycle Landing Gear with Brakes and Emergency Blow-Down

ELECTRICAL SYSTEM
- Two (2) 75 kVA, Oil-Spray Cooled, 12,600 RPM, Three-Phase Generators
- One (1) APU driven, 35/45 kVA, Air-Cooled, 12,000 RPM, Three-Phase Generator
- Two (2) 400 A, 28 VDC Regulated Transformer Rectifiers
- One (1) 125 A, 28 VDC Backup Regulated Transformer Rectifier
- One (1) 15 Ah Nickel Cadmium Battery
- One (1) 28 VDC and one (1) 115 VAC External Power Receptacles

FUEL SYSTEM
- Left and Right Sponson Crashworthy Fuel Cells with Total Usable Capacity of 740 US Gallons (2877 L)
- Single-Point Pressure Refueling System and two (2) Gravity Refueling Ports

LIGHTING
- Cockpit Instrument Panel, Glare-Shield, Side/Overhead Console, Lower Console, and Flood/Utility Dimmable Lighting
- Three (3) External Position Lights, two (2) Fixed Landing Lights, one (1) Controllable Searchlight, Upper & Lower Anti-Collision Lights, and six (6) Exterior Emergency Egress Lights

S-92A+ Offshore Features

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**S-92A+ Offshore Features**

**Cockpit and Cabin Furnishings**
- Two (2) Crashworthy Cockpit Crew Seats with five (5) Point Harnesses
- Nineteen (19) Crashworthy Airliner Seats with 4-pt Restraint and Headrests
- Offshore Interior Wall Panel System with Standard Cabin Acoustic Treatment and Night Curtain
- Active Vibration Control System with three (3) Force Generators
- Cockpit and Cabin Air Conditioning with Single Compressor
- Cockpit and Cabin Bleed Air Heating and Windshield Defogging
- Baggage Compartment Shell & Bulkhead
- Windshield Wipers and Windshield Washing System
- Pilot and Copilot Approach Plate Holders and Cup Holders
- Two (2) Fire Extinguishers (Cockpit / Cabin) and First Aid Kit

**Over-Water Equipment**
- Automatic Deployable ELT (ADELT), HR Smith, 15-503-134
- Emergency Flotation System (EFS), Three Inflatable Bags (Certified to Sea State 5)
- External Life Rafts (Survitec) (FAR 135.167 or JAR-OPS 3.830 Survival Pack), with 500-12Y Mod 1 Beacons
- Helicopter Emergency Egress Lighting System (HEELS) for six (6) Emergency Exits and ten (10) Cabin Jettisonable Windows

**Selecteable Options for Offshore or Limited Search and Rescue Missions**
- Half-Height or Full-Height Sliding Cabin Door
- Direction Finder
- Electro-Optic / Infrared (EO-IR) Camera System
- High-powered Searchlights
- SAR Automatic Flight Control System (AFCS)
- Rotor Ice Protection System Completion
- Second GPS/FMS
- Night Vision Goggle Compatible Cockpit / Cabin
- Mission Displays and Digital Moving Map System
- Rig Approach™ System
- Automatic Identification System (AIS) Transponder
- Aeromedical Litters
- SAR Cabin Mission Console
- Maritime Weather Radar Upgrades
- Up to two (2) Auxiliary Fuel Tanks [210 gal / 795 L each]
### Offshore Mission Performance

- Main Fuel, 1 Internal Aux Tank, and 2 Internal Aux Tanks
- ISA+20°C
- Take-Off: Cat A Runway
- Cruise: 6000 ft @ VBR
- Reserve: 30 min @ VBR
- Two (2) Pilots: 200 lb (91 kg) each
- Passengers with Baggage: 220 lb (100 kg) each

<table>
<thead>
<tr>
<th>Weight (lb)</th>
<th>Weight (kg)</th>
</tr>
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<tbody>
<tr>
<td>Operating Weight (19 Pax + Main Fuel)</td>
<td>27305 lbs 12385 kg</td>
</tr>
<tr>
<td>Operating Weight (13 Pax +1 Auxiliary Tank)</td>
<td>27635 lbs 12535 kg</td>
</tr>
<tr>
<td>Operating Weight (6 Pax +2 Auxiliary Tank)</td>
<td>27621 lbs 12529 kg</td>
</tr>
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### S-92A+ Hover Ceiling Out of Ground-Effect

- Dual Engine Takeoff Power
- 105% NR

![Graph showing S-92A+ Hover Ceiling Out of Ground-Effect](image-url)
S-92A: Category "A" / PC-2 En-Route Capability

OEI Continuous Rating  ROC = 150 fpm  \( V_{\text{BROC}} \)  1,000 ft AGL

CT7-8A, ISA
CT7-8A, ISA+20
CT7-8A, ISA+30
CT7-8A, ISA
CT7-8A, ISA+20
CT7-8A, ISA+30

Max Civil GW
27,700 lb (12,565 kg)

Pressure Altitude (m)
0
500
1000
1500
2000
2500
3000
3500
4000

Pressure Altitude (ft)
16000
18000
20000
22000
24000
26000
28000

Gross Weight (lb)
16000
18000
20000
22000
24000
26000
28000

Gross Weight (kg)
0
4500
10000
15000
20000

Notes