





### TROOP TRANSPORT AND INSERTION

Look no further than the SWFA SW205A-1 for troop transport needs. With aft cabin seating for 11 passengers or 15 passengers in high density seating, the SWFA SW205A-1 works as diligently and reliably as the troops do. This medium lift helicopter has a large flat, reconfigurable floor area for multi-mission cargo needs. Multiple structural fittings and hard points allow for flexibility in seating arrangements and attachment of equipment to meet transport and cargo operations. The SWFA SW205A-1 has the space and the lifting capacity to get the job done.



### AIR AMBULANCE

The SWFA SW205A-1 was built on a strong history in emergency life-threatening situations. The cabin sliding door and panel door on each side of the fuselage provide unobstructed openings 6.16 ft wide by 4.1 ft high (1.87 m wide by 1.24 m high). Its cabin can carry up to 6 litters. The wire-strike protection system is designed to offer a proven measure of protection against horizontally strung mechanical, electrical and communication wires and cables. When you are the help on the way, the SW205A-1 provides greater capacity enabling faster mission accomplishment.



### SEARCH AND RESCUE

For search and rescue missions, the SWFA SW205A-1 provides a stable hover platform with excellent fore & aft center of gravity tolerance and lateral stability. Large 6.16 ft/1.87 m wide door openings enable easy cabin access and room to maneuver for hoist operations. Single-engine fuel efficiency allows for greater search time and range. Optional auxiliary fuel tanks increase the standard search range capability. When you need to search, look no further than the SW205A-1.



### PARAPUBLIC

The SWFA SW205A-1 was built for the parapublic mission. With special operational equipment available, the aircraft can be configured to meet your mission needs: command & control, patrol, firefighting and tactical insertion/extraction. The fuselage features multiple structural fittings and hard points, two swing-out jettisonable crew doors and two aft cabin sliding doors with two emergency exit panels on each door. The sliding doors latch open for in-flight operations. Two swing-out doors allow extended access to aft cabin. These features keep the team safe so that they can keep the public safe.

# SW205A-1

INNOVATION  
TEAMWORK  
EXCELLENCE

The SWFA SW205A-1 Modernization Program is the only FAA/CAA approved and supported U.S. Military UH-1H performance upgrade available today. The SWFA SW205A-1 combines commercial 212/412 dynamic components with the reliable Honeywell converted engine, leading to an increase in hover performance in hot conditions. In addition, the SWFA SW205A-1 upgrade increases the maximum gross weight to 11,200 lbs, while lowering direct operating costs. Along with the SWFA SW205A-1 kit installation, SWFA refurbishes the U.S. Military UH-1H basic airframe to original military specifications and standards, provides a complete rewire, updates the avionics and offers a comprehensive selection of mission specific kits and customization. So whether your mission is troop transport into high altitudes, medical evacuation in hot conditions or transport to and from remote bases, choose the SWFA SW205A-1.



## KEY FEATURES AND BENEFITS

- Increased shaft horsepower to 1,800 shp/1,342 kW with the converted Honeywell engine upgrade package providing increased lifting capabilities
- Complete new 212/412 drive system
- Complete aircraft rewire
- Optional high density seating for up to 15 passengers
- Large sliding side doors for easy loading and unloading of patients, personnel or cargo
- 5,000 lbs/2,268 kg cargo lifting capability and a useful load of 4,873 lbs/2,210 kg
- Only FAA/CAA approved U.S. Military UH-1H modification with full support after the sale
- Twenty-nine percent reduction in direct maintenance costs over U.S. Military UH-1H
- All new life limited parts along with complete refurbished and upgraded airframe
- Customized to fit your mission
- New, FAA-PMA, or STC'd windscreens, fuel cells, landing gear and inlet barrier filter standard
- Can accommodate a wide variety of avionic suites
- Multiple crew positions and litter configurations



## ENHANCED SAFETY FEATURES



Designed and built with safety in mind, the SW205A-1 is equipped with a variety of safety features including: proven reliable engines, transmission with chip detection and debris collection, superb autorotation, rollover bulkheads, new rupture-resistant fuel cells, wire-strike protection, push-out passenger windows, and quick release jet-tisonable crew doors.

## FAA/CAA APPROVED UPGRADE



Honeywell converted engine upgrade package increases shaft horsepower from 1,400 shp/1,044 kW to 1,800 shp/1,342 kW. This certified upgrade extends the TBO from 2400 hrs to 5000 hrs, providing significant maintenance cost savings.

## MULTI-FUNCTIONAL INTERIOR



The multi-mission capable interior of the SW205A-1 has seating for 12 passengers with one pilot and up to 15 passengers in high density seating. Four large cabin windows enable ample visibility during SAR missions. Cabin doors may be pinned open to extend viewing capability and provide excellent access during hoist operations. The cabin's large, flat floor has multiple structural fittings and hard points for flexible seating arrangements and attachment of equipment to meet your multi-mission needs.

## DIRECT MAINTENANCE COSTS LOWERED



Compared to the standard U.S. Military UH-1H, the SW205A-1 decreases your direct maintenance costs in excess of 29% while increasing your operational readiness rates. The utilization of 212/412 components enhances parts availability. Compared to the U.S. Military UH-1H, service life improvement for most components (main rotor mast, hub assembly, engine transmission, gearboxes, rotor blades, etc.) is improved by more than 250%.

## FLEXIBLE



A wide array of kits and customizing can be added to the SW205A-1 to suit your specific mission needs, whether you fly transport, cargo, air ambulance, fire suppression, or parapublic operations. Standard equipment includes a wire-strike protection system, new fuel cells, inlet barrier filter and NVG compatibility. Other options include cargo hook, hoisting options with internal and external capability, and armor options.

## INNOVATION OF THE LEGENDARY UH-1H

With a fielded fleet of over 200 aircraft, the SW205A-1 has proven to be a smart, cost-efficient solution. It can carry up to 11 fully out fitted tactical team members with 2 pilots, without the need for external platforms. Emergency response teams also appreciate the exceptional cabin volume and ample power of the SW205A-1, facilitating a wide range of search and rescue, disaster response, special operations and fire fighting missions. As compared to the U.S. Military UH-1H, hover ceiling increases 39% on a standard day, 275% on a hot day. In addition, payload increases to a maximum internal gross weight of 10,500 lbs/4,763 kg and 11,200 lbs/5,080 kg external gross weight. The direct maintenance costs of the SW205A-1 offers a 29% savings over the U.S. Military UH-1H, delivering excellent lift capability with single-engine economics.

## EXCELLENT CUSTOMER SUPPORT AND TRAINING

One of the advantages of operating a SWFA SW205A-1 helicopter is the excellent support and service that comes with it. SWFA is committed to providing you with the best products backed by the best service in the industry, with a significant parts inventory, plus training and technical personnel ready to answer your questions and provide the support you need in the field. To further complement our support, a comprehensive set of pilot and maintainer courses are available through the effective SWFA Training Academy (SWFATA). Maintainers will have the advantage of learning on an actual SW205A-1, ensuring a relevant and effective training experience. Pilots will appreciate a suite of customized course materials, complemented by a sophisticated flight training device, and concluding with flight instruction in your aircraft. The SWFA Training Academy also understands that the right training is just as important as comprehensive training, so your instruction can be custom tailored to meet your specific goals and training requirements.



## AVAILABLE KITS

The SW205A-1 has a wide assortment of available optional kits, including:

- Composite 212 nose kit (Fiberglass, Carbon Fiber)
- Full Glass cockpit solutions
- Hour meter indicator
- Fuel flow meter indicator
- FLIR
- Wulfsberg™ Flexcomm RT 5000 transceiver
- TETRA radio (Teltronic MDT-400)
- 3-place litter
- 5-place rear facing seat
- Fast Rope Insertion/Extraction System (FRIES)
- Window Guard & Crew Door Struts
- Space Doors
- Bambi bucket
- Simplex Fire Tank System
- BF Goodrich 600 lbs. external hoist
- High skid gear with flight steps
- LifePort™ cabin/cockpit floor and side armor
- LifePort™ engine armor
- LifePort™ nose section armor
- On Board Systems™ cargo hook kit
- Rotor brake equipment
- Cabin/Wall Protectors
- N1/N2 Cycle Counter
- Fast-Fin and Strakes
- 53 Amp Battery System



# SW205A-1

INNOVATION  
TEAMWORK  
EXCELLENCE

## TECHNICAL SPECIFICATIONS

### SPEEDS at max. gross wt.

Vne	111 kts	206 km/h
Max. Cruise	106 kts	196 km/h
Range at $V_{RC1}$	246 nm	455 km/h
Range with Auxiliary Fuel (Internal)	680 nm	1259 km/h
Range with Auxiliary Fuel (External)	510 nm	945 km/h
Range with Auxiliary Fuel (Combined Internal & External)	890 nm	1648 km/h
Max. Endurance		2.7 hrs
Max. Endurance with Auxiliary Fuel (Internal)		6.4 hrs
Max. Endurance with Auxiliary Fuel (External)		4.8 hrs
Max. Endurance with Auxiliary Fuel (Combined Internal & External)		8.4 hrs

### PERFORMANCE SUMMARY

CEILING ALTITUDES (Continuous Power)	8,500 lbs	3,856 kg	9,500 lbs	4,309 kg	10,500 lbs	5,080 kg
Service Ceiling (Pressure Altitude)	20,000 +	6096+	19,060	5,809	16,210 ft	4,940 m
Hover Ceiling IGE (Optional Max GW, ISA)	*****	*****	*****	*****	12,595 ft	3,839 m
Hover Ceiling OGE (Optional Max GW, ISA)	*****	*****	*****	*****	5,335 ft	1,626 m

### TAKEOFF POWER GROSS WEIGHT

		8,500 lbs	3,856 kg	9,500 lbs	4,309 kg	10,500 lbs	5,080 kg
IGE Hovering Ceiling (TOP capability)	ISA	18,670	5,691	15,550	4,740	12,590	3,837
	ISA + 20 °C	16,560	5,047	12,980	3,956	9,380	2,859
	ISA + 30 °C	14,560	4,438	10,370	3,161	5,800	1,768
OGE Hovering Ceiling (TOP capability)	ISA	14,540	4,432	11,200	3,414	5,330	1,625
	ISA + 20 °C	11,820	3,603	7,730	2,356	3,060	933
	ISA + 30 °C	9,040	2,755	3,380	1,030	(10,040 lb @ SL)	(4,554 kg @ SL)

### CAPACITIES

Standard Seating		1 + 12
Maximum Seating		1 + 15
Standard Fuel	211 US gal	799 liters
Auxiliary Fuel (External Optional)	150 US gal	568 liters
Auxiliary Fuel (Internal Optional)	270 US gal	1022 liters
Cabin Volume	220 ft <sup>3</sup>	6.2 m <sup>3</sup>

### WEIGHTS

Empty Weight (Standard Configuration)	5,627 lbs	2,552 kg
Useful Load (Standard Configuration)	4,873 lbs	2,210 kg
Max. Gross Weight (Internal)	10,500 lbs	4,763 kg
Max. Gross Weight (External)	11,200 lbs	5,080 kg
Cargo Hook Capacity	5,000 lbs	2,268 kg
Cargo Hook Capacity(SWFA Bulletins C/W)	6,000 lbs	2,721 kg

### POWERPLANT (1) Honeywell T53 Series

Engine Rating, Take-off	1,800 shp	1,342 kW
-------------------------	-----------	----------

1 Max GW, ISA, Std fuel-no reserves at sea level

