

PZL-ŚWIDNIK



AgustaWestland  
A Finmeccanica Company

COMPACT AND CAPABLE

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**SW-4**





# SW-4

## PROVIDING CAPABILITY

Excellent flying qualities and high inherent safety make the SW-4 an optimum helicopter to transport up to 4 passenger and an excellent platform for both primary and advanced training.

- Ample cabin space
- Superior external visibility for passengers
- Competitive acquisition and operating cost

The multirole capability, to satisfy present and future operational requirements, and the best range of operation in its class make the SW-4 the most cost-effective choice to enter the turbine helicopter world.







## COMFORT AND ACCESSIBILITY

The large cabin provides passengers with excellent comfort, ample legroom and superior external visibility. Access to the main cabin area is through 2 rear sliding doors and 2 forward hinged doors on both sides of the fuselage.

## FLEXIBILITY

The cabin is designed to provide high levels of operational flexibility. It can be quickly and easily reconfigured from a passenger layout to a cargo solution capable of carrying up to 323 kg (712 lb) in the cabin and a further 150 kg (331 lb) in the baggage compartment.



## SW-4

The SW-4 is a light single multi-purpose helicopter designed to carry up to four passengers plus crew, under day and night VFR conditions. Modern technology, low operating cost and ease of flying make the SW-4 an excellent light single turbine helicopter.

### DISTINCTIVE FEATURES

The SW-4 incorporates the most advanced technologies and features such as:

- Fully articulated main rotor hub with three composite blades
- Two composite tail rotor blades
- Crashworthy seats (pilots and passengers)
- Hydraulic flight controls
- Easy conversion between cargo and passenger configurations
- Easy access to the cabin enabled by:
  - 2 cockpit hinged doors, one on each side
  - 2 cabin sliding doors, one on each side
- Highest useful load in its class<sup>1</sup>
- Best range and endurance in its class<sup>1</sup>
- Reduced operating cost.

The fuselage and structural components of the airframe are designed with state-of-the-art materials making extensive use of composites.

<sup>1</sup>Light single helicopter class (up to 1,800 kg / 3,968 lb)

## OPERATIONAL CAPABILITY

Multi-role capability, to satisfy present and future operational requirements, has been one of the priority targets of the PZL- Świdnik engineers in designing the helicopter architecture.

The SW-4 is perfectly suited for passenger transport, primary and advanced training, patrol and surveillance missions. The helicopter provides the best range of operation in its class.

The military variant of the SW-4 can be fitted with external extension arms capable of carrying specialist role equipment up to 240 kg (529 lb).

### MISSION EQUIPMENT

- Removable co-pilot controls
- Vibration absorbing system
- Moving map
- Radio altimeter
- IFR training kit
- External cargo sling
- Bambi bucket
- Emergency medical system kit
- Wire strike protection
- FLIR / TV System
- Search light
- External loudspeaker system
- Windshield wipers
- Floatation gear system





## TRAINING CAPABILITY

Excellent flying qualities and high inherent safety and stability make the SW-4 extremely suitable for training operations: from basic to advanced flying training. The use of the SW-4 for training purposes by the Polish Army ensures it meets military pilot training regulations and NATO standards.

The main features of the basic training version of the SW-4 are:

- Dual controls
- Flight controls powered by hydraulic amplifier
- Crashworthy seats
- Good visibility through all windows
- Low vibration levels
- Configurable instrument panel.

Additional features of advanced training version of the SW-4 are:

- Dual-pilot instrument panel configuration and additional communications and navigation equipment
- Emergency simulation unit to simulate helicopter stability and controllability in emergency situations such as:
  - Hydraulic system failure
  - Attitude indicator failure
  - Gyro-compass failure
- Capability for day and night flights under simulated IFR conditions
- Capability for NVG training flights.





## SW-4 CHARACTERISTICS

### Dimensions

Overall length (rotors turning)	10.58 m	34 ft 8 in
Overall height (rotors turning)	3.14 m	10 ft 3 in
Skids track	2.20 m	7 ft 2 in
Main rotor diameter	9.00 m	29 ft 6 in
Tail rotor diameter	1.50 m	4 ft 11 in

### Weights

Max gross weight	1,800 kg	3,968 lb
Basic empty weight	998 kg	2,200 lb
Sling load capacity	650 kg	1,433 lb

### Engine Ratings (RR 250-C20R/2SP)

Take off	336 kW	450 shp
Maximum Continuous Power	283 kW	380 shp

### Transmission Ratings

Take Off Power (5 min)	331 kW	444 shp
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### Fuel Capacity

471 l	125 USgal
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### Seating

Crew	1 or 2
Total seats	5

### Performance (ISA, MGW)

VNE (SL)	254 km/h	137 kt
Max cruise speed (SL - MCP)	206 km/h	111 kt
Rate of climb (SL - TOP)	6.6 m/s	1,299 ft/min
Hovering IGE	1,290 m	4,232 ft
Hovering OGE	820 m	2,690 ft
Service ceiling	3,900 m	12,795 ft
Max range <sup>1</sup>	850 km	459 nm
Max endurance <sup>1</sup>	5 h 30 min	

<sup>1</sup> no reserve, @ 5000 ft



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