

The Workhorse

W-3A Sokół



PZL-ŚWIDNIK S.A.



AgustaWestland
A Finmeccanica Company



DISTINCTIVE FEATURES

CARGO CAPABILITY

FIREFIGHTING

MISSION EQUIPMENT



- Exceptional cargo capability
- Highly effective
- Rugged
- Reliable
- Operational flexibility
- Operations-friendly maintenance
- Low cost

FLEXIBILITY

MAINTAINABILITY

W-3A Sokól

The W-3A Sokól helicopter is a 6 tonne class twin engine helicopter optimised for utility and aerial work operations, capable of carrying up to 12 passengers and 2 pilots. Featuring outstanding design qualities, the W-3A has proven to be a very effective, rugged and reliable helicopter in challenging conditions. The high loading capability of its cargo hook, allows the W-3A to perform a wide range of external local operations.

A wide range of optional equipment ensures ample operational flexibility to perform missions in a variety of roles.

DISTINCTIVE FEATURES

The helicopter has been type certified by the European Aviation Safety Agency (EASA) under Part 29 and by the Federal Aviation Administration (FAA) under Part 29.

Highly flexible, with market leading internal and external cargo capacity, it can perform in a wide range of operations making it an excellent utility helicopter. A low cost to useful load ratio and very manageable maintenance operations make the W-3A particularly attractive to operators.

The Sokól adopts technology solutions that provide high comfort and great performance in hot and high flight conditions such as:

- Fully articulated four blade main rotor and three blade tail rotor
- Four composite main rotor blades providing high efficiency and inertia for safe autorotation
- Trapezoidal main rotor blade tips reducing control system loads
- Pendulum type vibration absorber minimizing vibration levels
- Continuous engine restart capability reducing pilot workload

Operations during bad weather conditions are enabled through the use of:

- Electrically heated leading edges of both the main and tail rotor blades
- Electrically heated windshields with wipers

The landing gear is of rugged design with large tyres to withstand landings on unprepared and even very rough ground. The fixed tricycle landing gear incorporates the fully castoring nose gear.



CARGO CAPABILITY

The cargo carrying capability of the W-3A is a real differentiator making it a true workhorse. In the cabin it is possible to carry up to 2,100 kg of cargo, or a combination of cargo and up to 10 passengers on folding seats. The cabin has been designed to have an unobstructed space with a regular and flat floor to enable easy arrangement of cargo and optimisation of its 7m³ area. Furthermore, two large cabin doors offer ease of access and egress. The helicopter is unique in its ability to carry external loads of up to 2,100 kg on its cargo sling system. The W-3A is the only helicopter of its class able to maximise its cargo hook capability in this way.

FIREFIGHTING

Fitted with a Bambi Bucket or Expandable Belly Tank the W-3A is the perfect helicopter to perform fire suppression, containment and clearance operations. The Belly Tank has been designed to ensure a cruise speed up to 115 kts with the Belly Tank fitted, and to enable very accurate and effective drops.

The versatility of the W-3A allows easy and quick aircraft reconfiguration to allow for “helitacks” operations such as:

- Special teams transport for up to 10 people
- Rescue and Medevac operations using a rescue hoist, search light and emergency medical kit
- Fire fighting equipment and special tools transport using the external cargo container and the large baggage compartment.



MISSION EQUIPMENT

- 4-axis AFCS
- Engine air particle separator
- Weather radar
- Air conditioning system
- Cargo transportation kit
- External cargo sling
- Rescue hoist
- Searchlight SX-16
- FLIR/TV System with video
- Loudspeaker systems
- NVG system
- Wire strike protection system
- Belly water tank
- Bambi bucket
- External cargo container
- Continuous restart engine system

FLEXIBILITY

Excellent flight performance, large cabin and a wide range of role equipment ensure a highly flexible solution for operators needing to transport passengers, goods or casualties, perform sea and mountain rescue missions or patrol and surveillance operations.

MAINTAINABILITY

The W-3A Sokół allows easy maintenance thanks to:

- Engines and main gearbox assembled as a single unit and mounted on the fuselage
- Engine cowlings, each capable of carrying the weight of up to two technicians, to be used as maintenance platforms
- Sliding transmission cowling allowing easy access to the powerplant
- Cockpit flat upper deck to be used as a work floor too

All these features allow technicians to turn around the helicopter without the assistance of the external infrastructure.



W-3A Sokół CHARACTERISTICS

DIMENSIONS

Overall Length (rotors turning)	18.79 m	61.65 ft
Overall Height (rotors turning)	5.14 m	16.86 ft
Width (fuselage)	1.75 m	5.74 ft
Wheel base	3.55 m	11.65 ft
Wheel track	3.15 m	10.35 ft
Main rotor diameter	15.70 m	51.51 ft
Tail rotor diameter	3.03 m	9.94 ft

ENGINE RATING (2 x PZL-10W)

Take off power	2 x 662 kW	2 x 888 shp
Max continuous power	2 x 574 kW	2 x 769 shp
O.E.I. Max Contingency (2.5 min)	846 kW	1134 shp

WEIGHTS

Max gross weight	6,400 kg	14,110 lb
Basic empty weight	3,760 kg	8,290 lb
Sling load capacity	2,100 kg	4,630 lb

FUEL CAPACITY (std)	1,713 l	452.2 USgal
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SEATING

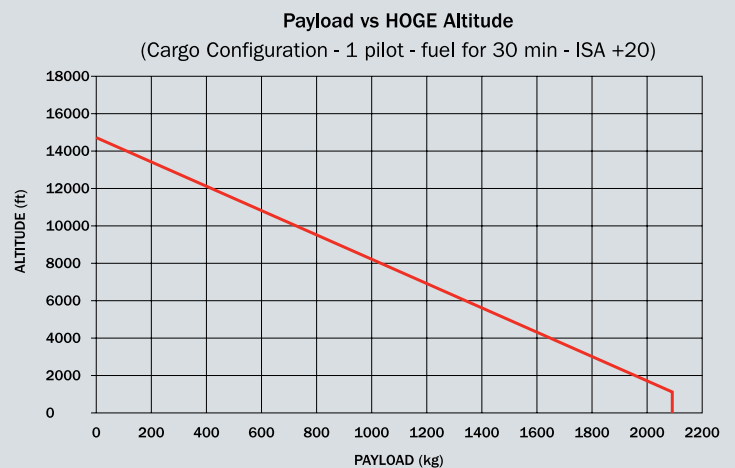
Crew	1 or 2
Passenger seats	13 or 12



PERFORMANCE (ISA, MGW)

VNE (SL)	260 km/h	140.5 kts
Max cruise speed (SL - MCP)	235 km/h	127 kts
Rate of climb (SL - TOP)	8.5 m/s	1,678 ft/min
Hovering IGE	2,550 m	8,364 ft
Hovering OGE	660 m	2,165 ft
Service ceiling	4,520 m	14,829 ft
Max range ¹	734 km	386 nm
Max endurance ¹	4 h : 12 min	

¹ no reserve



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