technological innovation,
manufacturing, and total
customer support.
Every day AgustaWestland
relentlessly embraces
the competitive
challenges for maintaining
its leadership position
and fulfil its vision:
to make AgustaWestland
name synonymous
with helicopters
and vertical lift.

Marketing & Sales

ITALY
Via Giovanni Agusta, 520
21017 Cascina Costa di Samarate (VA)
Tel. +39 0331 229111
Fax +39 0331 229605

U.K.
Yeovil, Somerset
BA20 2YB United Kingdom
Tel. +44 (0) 1935 475222
Fax +44 (0) 1935 702131

USA
3050 Red Lion Road
Philadelphia, PA 19114 - USA
Tel. +1 215 2811400
Fax +1 215 2810440

www.agustawestland.com
info@agustawestland.com

AgustaWestland
A Finmeccanica Company

A109 LUH

AgustaWestland

AgustaWestland
is a world leader in
helicopter manufacturing.
With over 7,500
helicopters delivered
to civil and military
customers in more
than 80 countries,
AgustaWestland
maintains a leadership
position thanks
to its outstanding
capabilities in design.

AgustaWestland

A109 LUH

Light Utility Helicopter

Yesterday battlefield helicopter requirements demanded specialization to face a fairly well-defined threat. Today's battlefield ... And tomorrow's ... Is less defined, and more likely to demand helicopter assets that can face a multitude of scenarios effectively and efficiently.

With a long tradition of excellent performance in a wide range of roles and operating environments, the A109 LUH is that asset. The A109 LUH offers the battlefield commander and the helicopter crews that fly it combat superiority and flexibility. When these aspects are combined with the A109 LUH's ballistic tolerances, safety features, and crashworthiness characteristics, the combination is unbeatable.

The A109 LUH is a 3 ton class, twin engine, four composite bladed fully articulated rotor, eight seats multirole helicopter powered by two turbomeca Arrius 2K2 turboshaft engines. The twin engine reliability is assured by a fully separated fuel system, dual hydraulic boost system, dual electrical system and redundant lubrication and cooling systems for main transmission and engines. The wheel type landing gear is provided with an air oil absorber for each leg for increasing the crashworthiness.

A wide range of armament and mission equipment make the A109 LUH a real multirole light helicopter able to satisfy the most military requirement thus fulfilling different missions such as:

- Patrol and reconnaissance
- Escort / Area suppression
- Transport
- Light attack / Antitank
- Liaison and command
- Medical evacuation

The A109 LUH is equipped with an integrated advanced MEP (mission equipment package) including an aircraft management system (AMS) as centralized control for communication navigation observation and weapon system.
C-130 transportability is assured by removing the main rotor blades and lower vertical fin only.

AVIONICS
The most advanced avionic package integrating
- VHF-UHF / AM-FM
- HF
- HOMING
- ADF
- DME
- A.M.S.
- GPS
- DOPPLER
- AHRS
- STORMSCOPE
- IFF
- RADAR ALTIMETER
- ELT SYSTEM
- VOR / ILS
- DIGITAL MOVING MAP
- ICS [3 STATIONS]

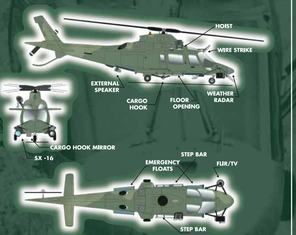
COCKPIT
- Ergonomically designed instrument panel with 3 main LCMFDs fully capable for IFR / IMC operation.
- Space provision for role / mission dedicated display / instrumentation
- NVG compatibility

OPTIONAL AUXILIARY EQUIPMENT
- External loudspeaker system
- Windshield wipers
- Reinforced pil / cop. windshield
- Wire strike protection system
- Bleed air heater
- Environmental control unit
- 1 or 2 longitudinal stretcher installation
- Cargo platform (500 kg / m²)
- Single or dual external cargo hook (1000 kg / 500 kg)
- Rear view mirror
- Rescue hoist (270 kg)
- Snow skis
- Slump protection pads
- Emergency floats
- Engine air particle separator
- Engine fire extinguisher
- Closed circuit refuelling system
- SX-16 High intensity search light
- External loudspeaker system
- Gyro stabilised sight
- FLIR / TV sensors.

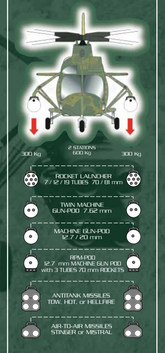
SURVIVABILITY EQUIPMENT
- Pilot / copilot armoured seats
- Chaff & flare dispenser
- Crashworthy fuel system
- Self sealing fuel tanks
- Radar warning
- Laser warning
- Missile approach warning system
- Infrared jammer

WEAPON SYSTEMS
- the A109 LUH's low vibration and highly stable flight tracking and firing capabilities to attain the highest effectiveness of an airborne weapon system.

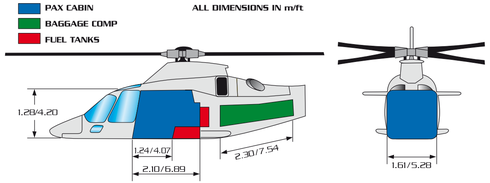
INTERNAL ARMAMENT
- Door gunner post 12.7 mm machine gun
- Two pintle mounted 7.62 mm machine guns



EXTERNAL ARMAMENT



INTERNAL DIMENSIONS



Volumes:

Pilot and passenger cabin	5.10 m³	180.17 ft³
Baggage compartment	0.95 m³	33.55 ft³

TECHNICAL DATA

WEIGHTS

Max gross weight normal (int/ext)	3000/3200	kg	6614/7055	lb
Alternate gross weight (int)	3175	kg	7000	lb
Empty Weight	1670	kg	3602	lb
Max Useful load	1505	kg	3318	lb

ENGINE RATINGS (ARRIUS 2K2)

Take off (5 min)	530	kW (x 2)	711	shp (x 2)
Max continuous	454	kW (x 2)	609	shp (x 2)
Max contingency (2.5 min)	590	kW	791	shp
O.E.I. Max continuous	530	kW	711	shp

TRANSMISSION RATING

Max continuous	671	kW	900	shp
O.E.I. emergency (2.5 min)	477	kW	640	shp
O.E.I. max continuous	418	kW	560	shp

FUEL CAPACITY

3 cells	158	USGal	(597 liters)
4 cells	181	USGal	(686 liters)
5 cells	223	USGal	(844 liters)

SEATING

Crew	1 or 2
Total seats (max.)	8

DIMENSIONS

Overall length (rotor running)	12.94	m	42.45	ft
Overall length (fuselage)	11.45	m	37.59	ft
Maximum height	3.40	m	11.15	ft
Max cabin width	1.61	m	5.28	ft
Main rotor diameter	10.83	m	35.53	ft
Tail rotor diameter	1.94	m	6.36	ft

VOLUMES

Cockpit & cabin	5.10	m³	180.17	ft³
Baggage compartment (1)	0.95	m³	33.55	ft³

PERFORMANCE (MGW 15A-5L Clean Configurations)

VNE	311	km/h	168	kts
Cruise speed (MCP)	283	km/h	153	kts
Rate of climb (MCP)	9	m/sec	1780	ft/min
Hovering IGE	5335	m	17500	ft
Hovering OGE	3475	m	11400	ft
Service ceiling	5791	m	19000	ft
OEI Rate of Climb	4.8	m/sec	950	ft/min
OEI Sevice Ceiling	3660	m	12000	ft
Max Range (2)	935	km	505	nm
Max endurance (2)	4 h 54 min.			

(1) partially occupied by mission avionic.
(2) with 223 USGal fuel, no reserve, @ 6000 ft.
Operating conditions: -40°C +50°C