




# AGUSTAWESTLAND

# AW109 Power

AgustaWestland - Via G.Agusta 520, 21017 Cascina di Samarate (VA) - ITALY  
+39 0331 229 111 / www.agustawestland.com

<b>Kind of operations :</b>	<b>Day Night VFR no icing cond.</b>		<b>Data source :</b>	<b>MANUFACTURER</b>	<b>Year model :</b>	<b>2010</b>
<b>Datasheet Status</b> Complete	<b>Start production year :</b> 1997		<b>Ceiling</b>	Service ceiling ft / m	19600 / 5974	
<b>Dimensions external (Fuselage)</b>	Us <input type="checkbox"/> Metric <input type="checkbox"/>		In Ground Effect (IGE) hovering ceiling	16600 / 5060		
Length : (ft,inch / m) :	42 / 9.4 / 13.04		Out of Ground (OGE) hovering ceiling	11800 / 3597		
Height : (ft,inch/ m) :	11 / 5.8 / 3.50		<b>Rate of climb MTOW</b>	SL 1 engine ft /m/mn	906 / 276	
Width : (ft,inch/ m) :	7 / 0.65 / 2.15		Rate of climb sea level all eng ft /m per mn	1930 / 588		
Hangar Surface with rotors (ft <sup>2</sup> /m <sup>2</sup> )	346.52 / 105.62		<b>Seats</b>			
Main rotor tip blade ground clearance ( ft / m )	8.04 / 2.45		Crew (min)	1	Pax (max vers.)	7
Tail rotor tip blade ground clearance ( ft / m )	3.12 / .95		Total	8		
Fuselage ground clearance ( ft / m )	1.31 / .40		<b>Indicative price ( Standard avionics,no options, no v.a.t</b> 5 600 000 \$			
<b>Dimensions internal (cabin)</b>			<b>Warranty : Helicopter: 3 years or 3000 h - Engine: 5 years or 2500 h - Avionics: 1</b>			
Cabin length : (ft,inch / m)	Aft cockpit 6 / 10.8 / 2.10					
Cabin width : (ft,inch / m)	5 / 3.4 / 1.61		<b>Direct operating cost / hour 554 \$ / 300 h / year</b> © AgustaWestland			
Cabin height : (ft,inch / m)	4 / 2.4 / 1.28		<b>Interior view</b>			
<b>Powerplant / Transmission / Rotor / Gear / De-icing</b>						
Engine (s)	2	Engine type :	<b>Cockpit view</b> Main avionics : Bendix King © / Collins ©			
Turbo :	Not apply	Energy :				
Engine manufacturer :	PRATT & WHITNEY		<b>Flight load factor limits</b> + 2,5g / - 0,5g			
Engine ident :	PW 206C					
Eng.Takeoff pow. 5mn hp / kw :	640 / 477					
Tot. Takeoff pow. 5mn hp / kw :	2 x 640 / 2 x 477					
Max Cont. Pow. 1 eng hp/ kw :	732 / 546					
Total Max Cont. Power hp/ kw :	2 x 567 / 2 x 423					
Transmission.T/O Power 5mn hp/kw :	900 / 671					
Trans. Max Continuous Power hp/kw :	900 / 671					
Main Rotor : Blade (s) :	4	Diameter ft/m :				
Tail Rotor : Blade (s) :	2	Diameter ft/m :				
Gear :	Tricycle	Gear Type :	Retractable			
Ice Protection :	Yes					
Carburator(s) de ice :	Not apply	Blade de ice :	No			
<b>Empty weight</b>	Empty weight lbs / kgs	3505 / 1590				
<b>Fuel</b>	Fuel capacity gal / l	221 / 837	usable	218 / 825		
	Fuel cap. lbs/kgs	1481 / 672	usable	1461 / 663		
<b>Weight</b>	Max gross weight lbs / kgs int. loads	6283 / 2850				
	Max gross weight lbs / kgs ext. loads	6614 / 3000				
<b>Load</b>	Max useful load internal lbs / kgs	2778 / 1260				
	Max usable load int. full fuel lbs / kgs	1297 / 588				
<b>Range example</b>	Range example nm / km	512 / 949				
MTOW, full fuel 221 us gal, no reserve.						
	Weight at takeoff	6283 / 2850				
	Cruise altitude for range data ft / m	5000 / 1524				
	Power in percent or rpm for range data	Long Range Cruise				
	Flight time Hr if available	3 h 28				
<b>Performance</b>	Max operating limit speed Knots type :	KIAS				
	Max structur. cruis. speed kts / kph (VNO)	154 / 285				
	Never exceed speed kts / kph (VNE)	168 / 311				
	Max landing gear extended speed kts / kph (VLE)	120 / 222				
	Max speed sea level kts / kph	154 / 285				
<b>Cruise performance</b>						
	Weight at takeoff	6283 / 2850	Cruise alt. ft/m	5000 / 1524		
	Cruise power in percent or rpm	Long Range Cruise				
	Speed at cruise altitude kts / kph ktas (true air speed)	140 / 259				