

**Bell 412EP**

*On a Mission.*





BELL 412EP | A daily workhorse with an expansive cabin providing multi-mission flexibility.



### CORPORATE

Whether running a company or a country, it's all about survival skills. You need the ability to keep going, even when the going gets really tough, that's what the Bell 412EP is all about. When your business requires you to travel in extreme conditions, look to the Bell 412EP to always get you there and back. A smooth, quiet ride for VIP transport accommodates the entire board of directors. A spacious, configurable 220 ft<sup>3</sup>/6.2 m<sup>3</sup> cabin has ample seating and room for any luxurious amenity. A large 28 ft<sup>3</sup>/0.8 m<sup>3</sup> baggage compartment fits luggage and other gear.



### ENERGY

The Bell 412EP is known as a true daily workhorse in the energy and offshore markets. The expansive cabin accommodates varying needs in a safe and reliable platform, including ferrying passengers and cargo. Optional mission equipment enhances the Bell 412EP's capability to keep your personnel safe. Emergency floats with life rafts mount to the skid gear in the event a water landing is necessary. Primus 700 radar provides information to assist with weather awareness and avoidance. A belly-mounted high intensity search light provides visibility during night transit or inspections.



### HELICOPTER AIR AMBULANCE

When disaster strikes, you're going to need extraordinary resources to respond. You need the Bell 412EP. The cabin features space to carry four medical attendants and up to six patients or two critical patients. The cabin adapts to ECMO, IAPB and ventricular assist devices. The 7.7 ft/2.3 m sliding doors on both sides of the aircraft allow for fast, easy patient loading and unloading.



### PARAPUBLIC

The Bell 412EP is as versatile as your daily requirements. As one of the roomiest, most flexible and cost-effective aircraft on the market today, the Bell 412EP can be configured as an airborne command center, an air ambulance platform, special operations or a homeland security base. It can be equipped with an optional hoist and cargo hook for increased multi-mission capability, including search and rescue, firefighting, emergency medical service and mass evacuations. It's on target for any mission, and is ideal for law enforcement missions or SWAT team insertions.



## **Bell** 412EP

The Bell 412EP reliably performs in some of the most extreme climates on the planet every day. It seats 14 passengers with one pilot in an interior adaptable for any mission. Its expansive cabin can be configured to accommodate either cargo or personnel. Its wide opening 7.7 ft/2.3 m doors accommodate forklift loading into a 220 ft<sup>3</sup>/6.2 m<sup>3</sup> cabin. The Bell 412EP is certified for single pilot IFR with excellent Category A/JAR OPS 3 capability.

In addition to offering outstanding product features, it's backed by Bell Helicopter's award-winning in-service support, rated #1 by our customers. Whether your mission calls for you to go to a remote location or just across town, the helicopter you should go in is the Bell 412EP.

### KEY FEATURES AND BENEFITS:

- All composite, on-condition four-blade rotor system with 8.6 ft/2.6 m rotor clearance and elastomeric bearings to help dampen vibrations
- Proven Pratt & Whitney PT6T-3D Twin Pac® engines with 25 million flight hours in more than 2,000 aircraft worldwide
- Standard safety features including: rupture resistant fuel cells, energy absorbing crew seats and collective mounted throttles
- Useful load capability of 5,100 lbs/2,313 kg
- Seating for up to 14 passengers plus one pilot
- Standard aft-sliding door and swing-out forward cabin door providing a 7.7 ft/2.3 m opening for quick and easy loading and unloading
- Cabin floor space of 52 ft<sup>2</sup>/5 m<sup>2</sup>
- Abundant capacity for specialized equipment (medical, search lights, etc.)
- Dual digital automatic flight control system with available single pilot IFR option
- Category A/JAR OPS 3 capable with installed optional equipment
- BLR Strake and FastFin® enables improved hover, cross-wind and hot & high performance
- Built-in steps, work platforms, plentiful access panels and inspection windows providing ease of maintenance



## SAFETY

All our aircraft are designed and built with safety in mind. That is why the Bell 412EP is equipped with a variety of safety features including: proven reliable engines, transmission with chip detection and debris collection, superb autorotation, rollover bulkheads, rupture resistant fuel cells, optional wire strike protection and jettisonable crew doors.



## PROVEN POWER

Pratt & Whitney PT6T-3D Twin Pac<sup>®</sup>, with 4,000 hour TBOs, has a take-off rating of 1,800 shp/1,342 kW. An optional kit provides the use of an additional 96 shaft horsepower in OEI condition for 30 minutes. This reliable engine averages 166,700-hours mean time between in-flight engine shutdowns. This aircraft is ready with power when you need it.



## MULTI-FUNCTIONAL INTERIOR

The multi-mission capable interior of the Bell 412EP has seating for up to 14 passengers with one pilot. Four large cabin windows give each passenger a panoramic view. 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.



## REDUCED CUSTOMER COSTS

Bell Helicopter is actively reducing the Bell 412EP's direct maintenance costs. Recent successes include removal of over 20 parts from 'Chapter 4,' increased life of four parts, 4,000 hour engine-combining gearbox time between overhaul, 25,000 hours between premature engine removals and 5,000 hour drive system TBO.



## CONFIGURATION OPTIONS

A wide array of kits and customizing can be added to the Bell 412EP to suit your specific mission needs, whether you fly transport, cargo, air ambulance, parapublic or energy operations. STC equipment includes a vibration monitor system, wire strike protection system and self-sealing fuel cells. Two sizes of auxiliary fuel tanks are available. Other options include weather radar, emergency floats, cargo hook and hoist.



## RELIABLE, RUGGED AND READY

The Bell 412EP is the workhorse of the helicopter industry with a reputation of getting up and going to work every day in even the most extreme environments:

- Proven Pratt & Whitney PT6T-3D Twin Pac<sup>®</sup> engines with more than 25 million flight hours in more than 2,000 aircraft worldwide
- High retirement and overhaul intervals
  - 5,000 hour drive system TBO
  - 4,000 hour engine overhaul interval
  - On-condition composite main rotor blades
- 25,000 hours between premature engine removals
- Excellent Category A/JAR OPS 3 capability
- Rugged fuselage with rollover bulkhead protection and rupture resistant fuel cells

## BLR STRAKE AND FASTFIN<sup>®</sup>

Bell Helicopter has partnered with BLR Aerospace to provide its performance, safety and efficiency enhancing Strake and FastFin<sup>®</sup> as a standard feature on new Bell 412EP aircraft orders. The system incorporates two parallel stall strips along the tail boom and a reshaped vertical fin. These modifications combine to optimize airflow around the tail boom, improving the handling, stability and lifting capacity of the Bell 412EP in all environments, especially high and hot conditions.

## WORLD-CLASS CUSTOMER SUPPORT AND TRAINING

One of the best parts of operating a Bell helicopter is the renowned network of worldwide support and service that comes with it. With a significant parts inventory pre-positioned at global supply centers, plus training and technical personnel ready to answer your questions and provide the support you need in the field, Bell Helicopter is committed to providing you with the best products backed by the best service in the industry.

To further complement our support, a comprehensive set of pilot and maintainer courses are available through the world-class Bell Helicopter Training Academy (BTA). Maintainers will have the advantage of learning on an actual Bell 412EP, 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. BTA 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.

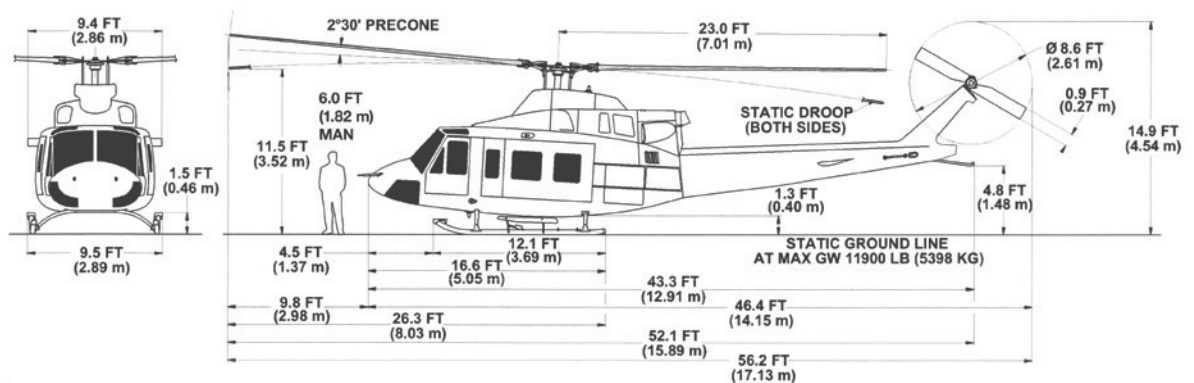
The Bell 412EP is a daily workhorse in the most extreme climates on the planet. Offering an expansive cabin for cargo and/or personnel, dual digital automatic controls and excellent hot & high performance, the Bell 412EP provides multi-mission flexibility to its operators.



## TECHNICAL SPECIFICATIONS

SPEEDS at max gross wt		
V <sub>NE</sub>	140 kts	259 km/h
Max Cruise	122 kts	226 km/h
Range at V <sub>LRC</sub> <sup>1</sup>	358 nm	663 km
Max Endurance <sup>1</sup>	3.6 hrs	
CEILING ALTITUDES		
Service Ceiling (Pressure Altitude)	16,280 ft	4,962 m
Hover Ceiling IGE (Max GW, ISA)	10,200 ft	3,109 m
Hover Ceiling OGE (Max GW, ISA)	5,200 ft	1,585 m
CAPACITIES		
Standard Seating	1 + 14	
Maximum Seating	1 + 14	
Standard Fuel	331 US gal	1,251 liters
Auxiliary Fuel (Optional)	33 or 163 US gal	123 or 617 liters
Door Width	7.7 ft	2.3 m
Cabin Volume	220 ft <sup>3</sup>	6.2 m <sup>3</sup>
Aft (Baggage) Compartment Volume	28 ft <sup>3</sup>	0.8 m <sup>3</sup>
WEIGHTS		
Empty Weight (Base Aircraft)	6,800 lbs	3,084 kg
Useful Load (Internal, Base Aircraft)	5,100 lbs	2,313 kg
Max Gross Weight (Internal)	11,900 lbs	5,398 kg
Max Gross Weight (External Load)	11,900 lbs	5,398 kg
Cargo Hook Capacity	4,500 lbs	2,041 kg
POWERPLANT (2) Pratt & Whitney PT6T-3D Twin Pac <sup>®</sup>		
Transmission Rating, MCP	1,110 shp	820 kW

<sup>1</sup> Max GW, ISA, Std fuel – no reserves at sea level



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