



BELL 505

COST-EFFECTIVE PERFORMANCE

The Bell 505 is ready to meet the demands of military pilot training programs. A capable and flexible platform with more than 100k flight hours, the Bell 505 operates in more than 55 countries across six continents and is perfect for operators training in the fundamentals of rotary-wing flight. Designed with instructor pilot input, the Bell 505 provides a fully integrated flight deck, an intuitive and forgiving platform, numerous safety features, and superior front and rear seat visibility to maximize student pilot learning.

With the only dual-channel FADEC controlled engine in its class and a modern NVG compatible glass cockpit, the Bell 505 ensures the next-generation of aviation warfighters are trained and ready for any mission or follow-on advanced aircraft transition.

THE IDEAL TRAINER

The Bell 505 is the perfect low-cost and safe training partner to ensure military forces are prepared for future missions. Reliability, low fuel consumption, and ease-of-maintenance coupled with advanced displays, digital engine control, and innovative technology give Instructor Pilots and trainees an exceptional experience with critical safety features.

- High inertia rotor system provides excellent autorotation handling characteristics and ample rotor RPM for safe and repeatable full-touchdown landing practice
- Enhanced safety features such as energy-attenuating seats, crash-resistant fuel tanks and 4-point seat belts
- Optional flight displays increase situational awareness:
 - Traffic Information System
 - Helicopter Terrain Awareness and Warning
 - Garmin's Helicopter Synthetic Vision Technology™
 - Moving Map Display
 - "Pathways in the Sky" Display
- Safran Arrius 2R engine with dual-channel Full Authority Digital Engine Control (FADEC)
- VHF, UHF, FM, and SATCOM radio capability



OPTIONAL CONFIGURATION MISSION EQUIPMENT

- Night Vision Goggle (NVG) Compatible Cockpit
- Equipped for IFR training
- Survivability Features

Bell's expertise in training goes beyond designing the ideal training helicopter. The Bell Training Academy has been training pilots since 1949 and has trained over 130,000 pilots and mechanics from private/commercial operators to government agencies and worldwide armed forces. Bell is the industry leader in conducting emergency procedures training, non-standard maneuvers, and all types of full touchdown autorotations.

TRAIN WITH THE BEST

Innovation means redefining what it means to be the best. The Bell 505 is the newest addition to the Bell Jet Ranger family. Carrying on the legacy of the Bell 206, used to train pilots for more than 50 years, the Bell 505 maintains all the essential features of the Bell 206 and it's reputation as the world's safest helicopter and improved it with modern styling, advanced technology, and enhanced safety features:

- Versatility and comfort: Can be flown single-pilot from left or right seat, has adjustable pedals, excellent visibility and plenty of headroom for pilots with helmets
- Optional dual-pilot controls for efficient student-flight instructor interaction
- Integrated flight deck to reduce flight instructor workload
- FADEC system to increase fuel efficiency, safety, and reliability

TECHNICAL SPECIFICATIONS¹

Performance at Max Gross Weight

VNE	135 kts	250 km/h
Max Cruise	125 kts	232 km/h
Range at VLRC ²	306 nm	566 km
Max Endurance ²	3.9 hrs	

Capacities

Configurable Seating	1 + 4 (max)	
Standard Fuel	85 US gal	321 liters
Cabin Volume ³	99 ft ³	2.80 m ³
Baggage Compartment Volume	18 ft ³	0.5 m ³

Weights

Empty Weight (Std. Configuration)	2,180 lbs	989 kg
Useful Load (Internal, Std. Configuration)	1,500 lbs	680 kg
Max Gross Weight (Internal Load)	3,680 lbs	1,669 kg
Max Gross Weight (External Load)	4,475 lbs	2,030 kg

¹ Final performance data to be determined after configuration is finalized
² MAX GW, ISA, Std. fuel-no reserve at sea level
³ Total aircraft volume 99 ft ³/2.80 m³

THE DUAL-CHANNEL FADEC ADVANTAGE

Expect the unexpected. The Engine Control System provides an extra layer of safety even during unanticipated training occurrences.

- Simplifies start procedure
- Prevents hot starts
- Allows for 30-second cool downs
- Provides long-term health monitoring and diagnostics
- Controls engine throttle:
 - Automatically maintains optimal RPM even during aggressive maneuvering
 - Prevents most common accidental over-torque scenarios
 - Records exceedances



PROVEN MILITARY TRAINER

- Republic of Korea
- Royal Jordanian Air Force
- UAE (Horizon Flt)
- Bahrain Air Force
- Montenegro Air Force
- Japan Coast Guard
- Jamaica Defence Force
- CAE USA (USAF IFT-R)

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