



# HISTORY OF HEMS

On January 15, 1945, a Bell test pilot parachuted from a damaged fighter plane and made his way to an isolated farmhouse; he needed medical attention.

Floyd Carlson used ship number two to fly 20 miles from the Bell Aircraft facility in Gardenville to a point just south of Lockport, New York and landed on a road to pick up Dr. Thomas Marriott. Carlson covered five miles in a few minutes and deposited the physician in the yard of the farmhouse.

This is believed to be the first time in the United States a doctor used a helicopter on a mercy mission.



Bell NC-1H, the World's first commercially certified helicopter, father of the Bell 47 series, with Floyd Carlson demonstrating its stability (circa 1943)



## HEMS IN KOREAN WAR

The U.S. Army Aviation's helicopters made significant life-saving contributions during the Korean War.

In January 1951, four helicopter detachments were assigned to the 8th U.S. Army surgeon, and on the third day of that month, 1st Lt. Willis G. Shawn and 1st Lt. Joseph L. Bowler flew the first Army aerial medical evacuation (MEDEVAC) missions.

Dubbed the "Angel of Mercy" by soldiers on the battlefront, the aviators used the Bell H-13 to transport 18,000 of the war's total 23,000 casualties to forward deployed mobile Army surgical hospitals.

As the iconic symbol of the MEDEVAC mission during the Korean War, the H-13 Sioux helicopter became familiar to American television audiences years later when it was shown in the background title shot of the "M.A.S.H" series, which aired from 1972 to 1983.

#### **HEAR FROM OUR CUSTOMERS**



Air St. Luke's Bell 429



Classic Air Medical Bell 407



Careflite Bell 407



### **BELL 407GXi**

### Certified IFR Capability

The Bell 407GXi's speed, smooth flight characteristics, and incredible useful load make it a trusted platform for single engine helicopter users across the globe. More than 6 million global flight hours and newly certified IFR capability create a versatile aircraft to meet any HEMS mission needs.

#### **AIRCRAFT FEATURES**

#### **Patient Monitoring**

- Behind the head seating for excellent airway management
- Crew seat flexibility and ability to include additional crew members
- · Maximum utilization of space
- Neonatal Transport

#### Communication Options: Pedestal, Console, or Aft Med Wall Mounted

- Typical Patient Transport
- Scene Pick up
- Satellite Communications
- Dial/Text

#### **BELL 407GXi TECHNICAL SPECIFICATIONS<sup>1</sup>**

| Engine                              | Rolls-Royce 250-C47E/4 |
|-------------------------------------|------------------------|
| Avionics                            | Garmin G1000H NXi      |
| Max Cruise Speed                    | 133 knots, 246 KM/H    |
| Range                               | 337 NM, 624 KM         |
| Useful Load:<br>Internal (Standard) | 2,300 lbs. / 1,043 kg  |
| Internal (IGW)                      | 2,550 lbs. / 1,157 kg  |
| Seating                             | 1+6                    |

 $<sup>^1</sup>$  All technical specifications are based on the basic configuration Calculations at sea level ISA, Range at  $\rm V_{LRC}$ 

The Bell 407GXi Single Pilot IFR kit has been approved by the US (FAA) and Brazil (ANAC); approvals by China (CAAC) and European Union (EASA) are pending.

#### **EMS INTERIOR OPTIONS**

**LifePort** Customizable interiors starting at 228 lbs.

**Spectrum Aeromed** Contact Bell or vendor for options and weights.

**United Rotorcraft** Contact Bell or vendor for options and weights.



Scan to view EMS interior options



### **BELL 429**

### Fast and Powerful

The Bell 429 delivers ultimate versatility to air medical service providers worldwide. The 429 airframe design incorporated EMS customer and operator feedback into its design process making it the ultimate EMS solution for effective patient care.

| BELL 429 TECHNICAL SPECIFICATIONS <sup>1</sup> |   |
|--|---|
| Engine   | 2x Pratt & Whitney Canada<br>PW207D1/D2 |
| Avionics                                       | Bell BasiX Pro™                         |
| Max Cruise Speed                               | 150 knots, 278 KM/H                     |
| Range  | 372 NM, 688 KM                          |
| Useful Load:<br>Internal (Standard)            | 2,535 lbs. / 1,150 kg                   |
| Internal (IGW)                                 | 3,014 lbs. / 1,367 kg                   |
| Seating  | 1+7                                     |

 $<sup>^{1}</sup>$  All technical specifications are based on the basic configuration Calculations at sea level ISA, Range at  $\rm V_{LBC}$ 

#### AIRCRAFT FEATURES

- The cabin can accommodate:
  - · 2 patients and 2 medical crew or
  - 1 patient and up to 3 medical crew or
  - A neonatal EMS unit and up to 3 medical crew
- The largest door opening in its class with 62 in. wide openings on both sides
- A large open cabin with a total contiguous cabin volume of 204 ft<sup>3</sup>
- Optional aft clamshell doors offer aft patient loading capability to simplify complex loading problems
  - Doors snug up against aircraft when open
- Deck height designed to match litter height and minimize crew strain during loading and unloading
- Smooth ride from hover to max cruise speed from Liquid Inertia Vibration Elimination system
- Modular architecture for quick change mission adaption from rescue to specialty (ECMO, NICU, Heart pump, etc.) calls
- High main rotor height for enhanced safety for loading and unloading at the scene
- · High ceiling for ample headroom and easier mobility
- · Access to lower half of the patient

#### **EMS INTERIOR OPTIONS**

**Aerolite** Customizable interiors starting at 245 lbs.

**United Rotorcraft** Contact Bell or vendor for options and weights.

**Spectrum Aeromed** Contact Bell or vendor for options and weights.



Scan to view EMS interior options



### SUBARU BELL 412EPX

### Rugged and Reliable

The 412EPX integrates advanced technology to improve safety, reliability, maintainability for flight operations, and lowers operating cost through increased component life. It incorporates the same basic fuselage proven over years of operations while providing the newest dynamic components (rotors, transmission, drive system, and engines) and avionics available today. This combination of proven fuselage and new technology dynamics provides superior results.

### SUBARU BELL 412EPX TECHNICAL SPECIFICATIONS<sup>1</sup>

| Engine                | Pratt & Whitney Canada<br>PT6T-9 Twin-Pac® |
|-----------------------|--|
| Avionics              | Bell BasiX Pro™                            |
| Max Cruise Speed      | 123 knots, 228 KM/H                        |
| Range                 | 361 NM, 669 KM                             |
| Useful Load: Internal | 5,385 lbs. / 2,443 kg                      |
| Seating               | 1+14                                       |

 $<sup>^1</sup>$  All technical specifications are based on the basic configuration Calculations at sea level ISA, Range at V $_{\rm IRC}$ 

#### **EMS INTERIOR OPTIONS**

**Spectrum Aeromed** Contact Bell or vendor for options and weights. **LifePort** Customizable interiors

starting at 262 lbs.



Scan to view EMS interior options



## GLOBAL CUSTOMER SOLUTIONS

Industry-Leading Support

As the industry leader in customer support, we at Bell pride ourselves on supporting our customers around the world at every step of your aircraft's life cycle. We are committed to providing customers with an extensive range of support and service capabilities to ensure safe and reliable operation of our products, enhance mission execution, and keep you flying.

#### **CUSTOMER ADVANTAGE PLANS (CAP)**

CAP provides a holistic coverage solution with predictable maintenance cost, priority access to parts and assemblies, and enhanced part forecasting capabilities among other benefits.

#### **GLOBAL SUPPORT NETWORK**

Available 24/7/365 to provide technical assistance to our customers.

#### **BELL TRAINING ACADEMY**

We provide industry-leading training combined with state-ofthe-art resources for both pilots and maintenance technicians.

#### **REPAIR SERVICES**

Offering post-delivery and spares fulfillment assistance, our in-region service professionals are committed to helping you maintain the operational readiness of your aircraft.

#### **CUSTOMIZATION**

Working with our sister brand, Aeronautical Accessories, we can design a tailored solution for your needs.



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