429 HEMS MISSION COMPATIBILITY

10th October 2019, ZAKOPANE
Exceptional Speed to get to Scene and Patient to a Hospital

➢ Largest Contiguous Cabin in Class to better Treat Patient
➢ Excellent field of view and ambient lighting for Day time Operations and NVG Compatible for Night time Operations
➢ Smoothest Ride from Hover to $V_{NE}$
  ➢ Less Stress on Crew, Medical Attendants & Patient
➢ Only Light Twin Capable of Two Patients and Two Medical Attendants at Head of Patient
➢ Capacity for a Neo-Natal EMS Unit and up to Three Medical Crew

New standard for HEMS mission
<table>
<thead>
<tr>
<th>Service Name</th>
<th>Country</th>
<th>Bell 429 Fleet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Saint Luke’s – Boise ID</td>
<td>United States of America</td>
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<tr>
<td>Air Transport Europe</td>
<td>Slovakia</td>
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<tr>
<td>Air Zermatt AG</td>
<td>Switzerland</td>
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<tr>
<td>CareFlite – Garland TX</td>
<td>United States of America</td>
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<td>Delaware State Police</td>
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<tr>
<td>Doctor Heli</td>
<td>Japan</td>
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<tr>
<td>Fairfax County Police</td>
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<tr>
<td>Good Samaritan Hospital Air Care – Kearney NE</td>
<td>United States of America</td>
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<tr>
<td>HALO-Flight – Corpus Christi, TX</td>
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<tr>
<td>Helidrive</td>
<td>Russia</td>
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<tr>
<td>Life Flight Kuwait</td>
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<td>Lions Air</td>
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<tr>
<td>Mercy One – Des Moines, Iowa</td>
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<tr>
<td>Mercy Flight – Buffalo, NY</td>
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<tr>
<td>Naka Nihon Air Service</td>
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<td>Nassau County Police Department</td>
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<td>NEMA Rescue</td>
<td>Nigeria</td>
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<td>Royal Thai Police</td>
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<td>San Juan Regional Medical Center – Farmington NM</td>
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<td>Service d’Aide Medicale Urgente SAMU</td>
<td>France</td>
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<td>Turkish Ministry of Health</td>
<td>Turkey</td>
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<tr>
<td>Univ. North Carolina Air Care – Chapel Hill, NC</td>
<td>United States of America</td>
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<tr>
<td>Wilshire Air Ambulance</td>
<td>United Kingdom</td>
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</tr>
</tbody>
</table>

**Grand Total (As of June 2019)**: 12 (125)
Bell 429 Safety Features

- Certified for Ditching
- Damage Tolerant Blades
- Collective Mounted Throttles
- Roll-over Bulkheads
- 30 Minute Dry Run Transmission
- Dual Hydraulics
- FADEC with Engine Exceedance Monitoring
- Superior CAT A Performance
- Certified for Ditching
- Terrain Avoidance Warning Systems (TAWS)
- Real-time Satellite Weather in the Cockpit
- Crash Attenuating Seats
- Large Doors for Better Egress
- Rupture Resistant Fuel Tanks
- Performance and Automatic CG Calculator
- Single Pilot IFR Certified
- Engine Exceedance Monitoring
Harsh Weather Environments

- Operates in Temperatures between -40°C (-40°F) and 51.7°C (125°F)
- Cold Weather Operations;
  - Operating in the Arctic with Canadian Coast Guard
  - Operating in Switzerland with Air Zermatt
- Hot Weather Operations;
  - Operating in Kuwait by Kuwait Ministry of Health
- Mountainous Regions
  - Operating in Swiss Alps by Air Zermatt
  - Operating in Scandinavian Mountains by Swedish National Police
3 Different Levels of HEMS Interiors

- Quick Change Interior
  - Easily removable equipment and stretcher.
  - No permanently attached equipment
- Interior Compatible with 429 Seat Rails
  - Full Light weight EMS Interior however removable to perform other missions
- Loading Platform for Side or Rear Loading
- Roll-on/Roll-off EMS Interior
  - Medical Floor Overlay
  - Side or Rear Loading

Various EMS Interiors - Aerolite
Roll-on/Roll-off Stretcher with Full EMS Interior

Rear Loading Stretcher

Medical Floor Overlay
Multiple Patient Loading Alternatives

- RH and/or LH Side Loading w/ Wide Side Openings (RH & LH Sliding Doors (standard))
- Rear Loading w/ Rear Clamshell Doors (optional)
- Flat Floor throughout Cabin for easy loading and unloading of Stretcher
- Floor Height designed to be compatible with Stretcher height
HEMS Operation – Side Loading of Patient

- 61.9” (157 cm) Wide Cabin Door Opening on Each Side of the Aircraft
- Automatic Door Openers available for the Hinged Door
- Flat Floor for Easier Loading of the Patient on Stretcher or Backboard
- High Main Rotor Height for Enhanced Safety for Loading and Unloading at the Scene
- Aircraft Flat Floor Height designed for ease of Loading Patient
- Loading from RH or LH Side Available to support Customer Operations
➢ Large Unobstructed Opening to the Cabin with Flat Floor
➢ Doors Snug up against Aircraft when Open.
➢ Not Subject to Wind Gust
➢ Can Approach Aircraft from the side to avoid tail of the aircraft
➢ High Tailboom eliminates the need to Bend Over while Loading Patient
➢ Two Windows in Doors for Visibility Into and Out of the Cabin
HEMS Capabilities

➢ Largest Unobstructed Cabin in its Class for Medical Personnel to work

➢ Medical Equipment and Electrical Power located near Patient

➢ Medical Attendant Seats capable of Swiveling and Tracking

➢ High Ceiling for easier mobility

➢ NVG Compatible LED Lighting for Night Operations
HEMS Mission Equipment - Optional Medical Wall

- Located Opposite the Baggage Compartment Door
- Ability to attach Multi-Sized Pouches as well as secure Backpacks and Medical Supplies
- Pouch Sizes can be defined by the customer
HEMS Operations

➢ Certified NVG Lighting for Night Operations
➢ All Interior & Exterior Compatible Lighting
➢ No Blackout Curtain required between Cockpit and Cabin
HEMS Mission Equipment

- Dual 200Amp Starter Generator for increased Electrical Power
- Articulated Landing Light for increased visibility landing at the Scene
- Rotor Brake for faster Shutdown at the Scene and Hospital
- LED Side Mounted Loading/Scene Lights (RH & LH) for increased Safety loading and unloading Patient
- LED Step Lights for Cabin Doors (RH & LH)
HEMS Mission Equipment – Rescue Hoist

- Goodrich Model 44316 Hoist
- 600 lbs (272 Kg) Capacity
- Certified for Human External Cargo (HEC)
- Removable Components when not in Use
- Rappelling Ring
- Control Panel and Pendant located in Cabin
- Back-up Wire Cutter located in Cabin
- Mounted to Swing Away from Aircraft for Additional Clearance and Less Drag with not in use.

<table>
<thead>
<tr>
<th>Hoist Performance</th>
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<tbody>
<tr>
<td>Lowering Speed</td>
<td>260  fpm</td>
<td>1.32  mps</td>
</tr>
<tr>
<td>Raising Speed</td>
<td>250 fpm</td>
<td>1.27 mps</td>
</tr>
</tbody>
</table>
Bell Kit for Provisions and Equipment

Available with 1 or 2 Liferafts (7-Person Capacity)

Single Life Raft Available in LH or RH Float

Float Bottle attached to Removable Equipment

Quick Removal of Float Equipment (< 5 mins)

Certified up to Sea State 5 (Sea State 6 Certification Pending Approval)

Only Light Twin Certified for Ditching
HEMS Mission Equipment – Additional kits

- 4-Axis Autopilot
- Traffic Avoidance System (TAS)
- Single or Dual Evaporator Air Conditioner
- Digital Audio System
- Polycarbonate Windows
- Weather Radar
  - Radar or Radar Service
- Wire Strike Protection System
- Satellite Phone XM or Iridium
THANK YOU