

**MADE IN USA**



# Introduction to Robinson Helicopter Company



The Past...



# The Robinson Legacy: American Made for 50+ yrs



## **Robinson Founded** 1973

Frank Robinson founds Robinson Helicopters out of his garage

## **R22 First Flight** 1975

R22 Flight with Lycoming O-235-C2C engine

## **R22 Certified** 1979

FAA certifies the R22 SN 0002

## **Safety Course Launched** 1982

First flight safety course taught by Frank Robinson

## **1000<sup>th</sup> R22 Delivered** 1989

Robinson delivers 1000<sup>th</sup> R22 to Sloane Helicopters

## **R44 Introduced** 1991

New model R44 four seat helicopter featuring Lycoming O-540-F1B5

## **R44 Type Certified** 1992

FAA issues the Type Certificate for the new R44

## **R44 Raven II Announced** 2002

New R44 Raven II with Lycoming's fuel-injected IO-540-AE1A5 Engine

## **5000<sup>th</sup> Helicopter Delivered** 2003

5000<sup>th</sup> Helicopter Delivered to National Airways

## **6000<sup>th</sup> Helicopter Delivered** 2005

6000<sup>th</sup> Helicopter Delivered to Airborne Energy Solutions

## **8000<sup>th</sup> Helicopter Delivered** 2007

8000<sup>th</sup> Helicopter Delivered to a private New Zealand owner

## **R66 Introduced & Certified** 2010

R66 debuts at Heli-Expo in Houston, Texas

## **10,000<sup>th</sup> Helicopter Delivered** 2011

10,000<sup>th</sup> Helicopter Delivered to Audi Helicopters

## **12,000<sup>th</sup> Helicopter Delivered** 2016

12,000<sup>th</sup> Helicopter Delivered to Hover Dynamics

## **R66 1MM Flight Hrs** 2019

R66 turbine surpasses 1 million flight hours

## **13,000<sup>th</sup> Delivery** 2021

RHC delivers the 13,000<sup>th</sup> helicopter to SKY Helicopters

## **Ascent Acquisition** 2024

Robinson acquires unmanned aerial system company Ascent Aerosystems.

## **R88 Introduced** 2025

Robinson's Largest Helicopter



The Present...





# Robinson Helicopter Company (Torrance, CA)



- R22, R44, R66 Helicopter Production
- Ascent UAS production (Spirit & Spartan)
- ~1,250 Employees
  - ~1,100 Production Floor
  - On-Site Apprentice Program
  - Front Office, Sales, Marketing
  - Fleet Sales & Business Development
  - Customer Service & Support
  - Engineering & Certification
- Design, Flight Test, Operations, R&D
- Parts Manufacturing
- Maintenance, Repair, & Overhaul
- Flight & Maintenance Training

- The World's Highest Production Helicopter Manufacturer, year-over-year
- 85% of all aircraft parts are built from raw material to aircraft installation at our Torrance facility
- 6-8 aircraft built per week, and 350 aircraft per year
- ~20x Main Rotor Gear Boxes, 20x Tail Rotor Gear Boxes, and 60x Hydraulic Servos built each week.



# RHC Helicopter Products



R22

Flight Training  
Agriculture Spray  
Tour / Charter / Private Use

**Gross Weight:** 1,370 lb  
**Cruise Speed:** 95 kt  
**Max Range (no reserve):** 250 nm  
**Operating Cost Per Flight Hour:** \$200



R44

Flight Training  
Agriculture Spray / Game Protection  
Tour / Charter / Private Use  
\* Highest Production General Aviation Helicopter

**Gross Weight:** 2,500 lb  
**Cruise Speed:** 110 kt  
**Max Range (no reserve):** 300 nm  
**Operating Cost Per Flight Hour:** \$300



R66

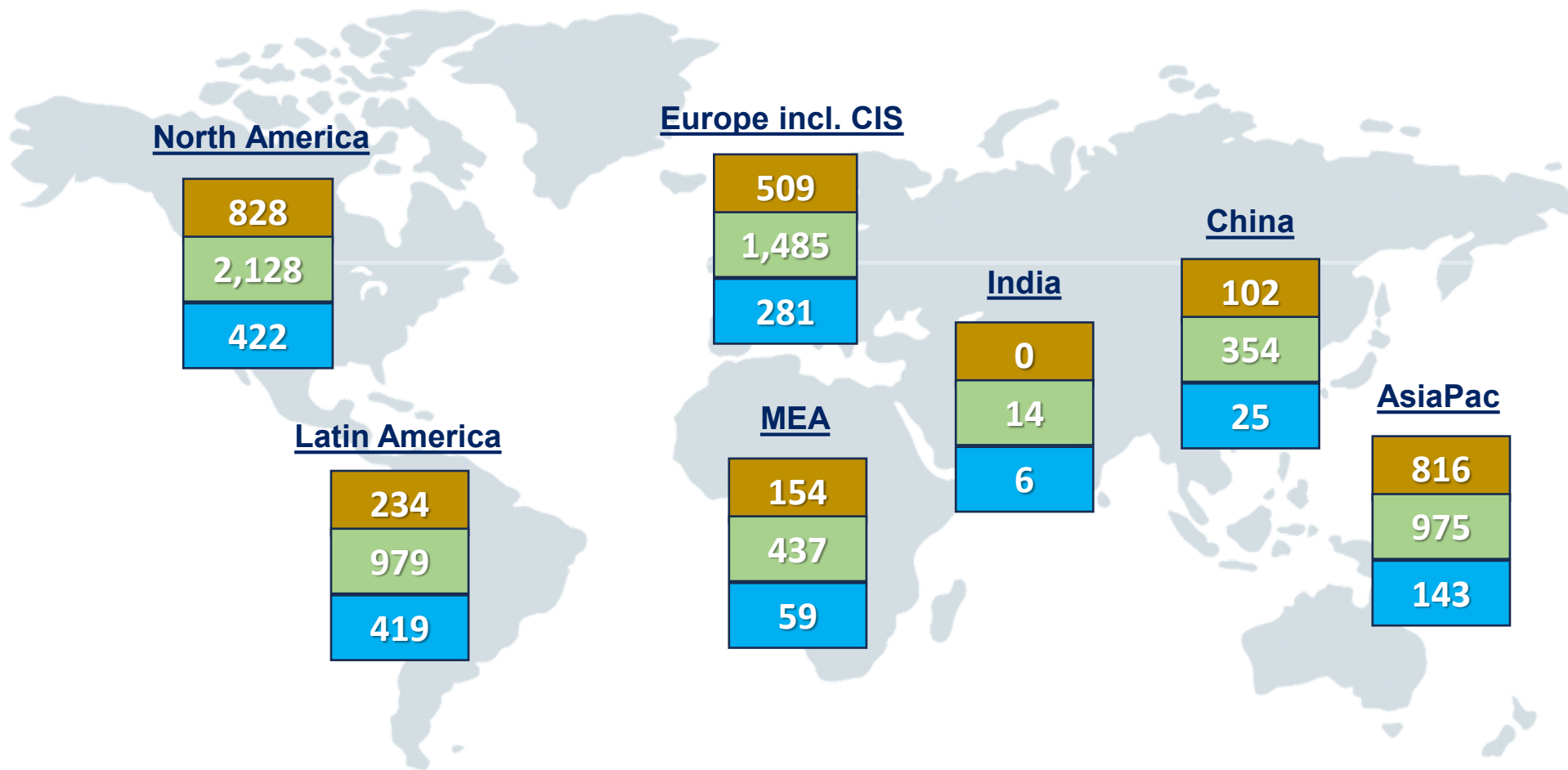
Flight Training  
Law Enforcement / Agriculture Spray  
Utility / External Cargo Hook Loads  
Tour / Charter / Private Use

**Gross Weight:** 2,700 lb  
**Cruise Speed:** 110 kt  
**Max Range (no reserve):** 350 nm  
**Operating Cost Per Flight Hour:** \$415

**Powerful, Reliable, & Lowest Operating Cost Turbine & Piston Helicopters in Class**



# In Service Global Footprint ~ 10,500 Aircraft



\* TOTAL RHC DELIVERIES TO DATE: 14,000+ (INCLUDES RETIRED, STORAGE, & WRITTEN OFF)



# The Future...

# RHC Helicopter Products – The R66 NXG



Southwood



Palo Verde



Riviera



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# RHC Helicopter Products – The R88



**Price (2025 USD):** \$3.3M

**Payload:** 2,800 lb

**Seating:** 10 (including pilot)

**Cruise Speed:** 130 kts

**Range:** 350+ nm

**Endurance:** 3.5+ hours

**HOGC (MGW/ISA):** 12,000' DA



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## CURRENT PLATFORMS

Ascent currently offers platforms that can meet nearly all Group 1 mission requirements

### SPIRIT (up to 13.5 lbs.)

A highly configurable utility platform designed for rapid integration of a wide range of payloads.



TRL-9  
(In production)

### Spartan (up to 50 lbs.)

The NX30 can be optimized for heavy Group 1 payloads or long endurance, with a wide range of intermediate capabilities.

TRL-9  
(In production)

### HELIUS (< 250g)

Under 250 grams, the Helius operates below the lowest regulatory risk category, making operations at scale possible without complex regulatory waivers. Currently TRL-5.

**Modular, Robust, All-Weather, Developer Kit Friendly UAS**



## Autonomy

R550 Airtruck  
Heavy Lift UAV Platform



## Electrification



## Manned-Unmanned Teaming



**Robinson Helicopter Company will surprise people over the next decade!**

# RHC's Road to Zero

The long road to eliminating fatal accidents



# Breaking Down The Problem

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1. We need better information about what goes wrong in fatal accidents.
  - How can we secure high quality accident/incident data that can be quickly converted to safety critical information?
2. We need to understand and address local patterns in operations, environment or training
  - How can we tailor training, communication and procedures to address local needs?
3. We need to compel users to make the product changes that have outsized impact on safety
  - How can we incentivize customers to take their aircraft out of service and upgrade to newest technology?

# Cockpit Cameras, Autopilots and Data Recorders







# The Future Simulation and Training

- Massively distributed scenario based training with:
  - Measured data on 1000's of parameters
  - Statistical performance distributions
  - Individualized pilot performance
  - Local environment and conditions
- Leverage RHC Network of 100+ Dealers and incentivize customers to “play” the scenarios monthly/quarterly
- Significant Safety Benefits
  - Reinforce RHC Safety Notices
  - Identify weak spots/bright spots
  - Reinforce RHC training curriculum
  - Better understand pilot performance in the fleet



# Trade-in/Overhaul Programs For Fleet Safety



- Factory Overhauls at RHC allow upgrades to latest safety equipment
  - Symmetric Horizontal Stabilizer
  - Cockpit Camera
  - Impact Resistant Windows
  - Garmin Autopilot
- Trade-in Program allows an increased throughput to accelerate adoption
- The combination of these two programs leads to a faster incorporation of safety technology

- After 52 years, RHC has shifted to an aggressive posture aimed at expansion of helicopters in all aspects of modern life
- Robinson Helicopter is committed to an optimistic future of:
  - New product development
  - Reduced emissions and increasing automation
  - Leadership in aircraft safety technology
- Our large global fleet, high vertical-integration and significant MR&O work gives us a unique and advantaged position to drive the market forward
- RHC's increasing involvement in unmanned aircraft and defense will further broaden our foundation over the next 50 years



# Climb Higher

