

R44 AIRTRUCK



AUTONOMOUS LOGISTICS AT SCALE.

Safe, Efficient, Autonomous Heavy Lift: Built on Robinson's proven R44 platform and adapted for remotely- or optionally piloted operation, AIRTRUCK brings established reliability, maintenance practices, and global support infrastructure into unmanned logistics, cargo transport, and resupply missions.

With more lifting capacity than other commercially available UAS, AIRTRUCK is designed to move heavy payloads in environments where crewed logistics aircraft are inefficient, constrained, or high-risk, enabling real-world deployment of scalable, reliable, and maintainable logistics operations.



R44 AIRTRUCK

ENHANCED SAFETY. MAXIMIZED EFFICIENCY. FOR THE TOUGHEST JOBS.

Built on the world's most produced helicopter platform - the Robinson Helicopter R44 - and adapted for remotely-piloted operation or autonomous operation, AIRTRUCK brings certified-aircraft discipline to unmanned cargo transport, resupply, and critical industrial aerial operations.

With the integration of advanced autonomy technology from Rotor Technologies, AIRTRUCK makes even the toughest jobs safer, easier, and more effective whenever and wherever it's needed most.



OPERATOR BENEFITS

- Deliver heavy, life-saving payloads without increasing crew risk
- Enable autonomous logistics at scale
- Leverage proven aviation maintenance and support ecosystems
- Support sustained operations in remote or austere environments

SPECIFICATIONS



AIRCRAFT

2,500 lb (1,134 kg)

MAX GROSS WEIGHT

1,002 lb (454kg); 63 cu ft. internal volume

USEFUL LOAD

12.5 Gal (47.3 L)

FUEL CAPACITY

PERFORMANCE

109 kn (202 km/hr)

CRUISE SPEED

14,000 ft (4,300 m) MSL

MAX OPERATING ALTITUDE

EQUIPMENT

SENSORS - STANDARD

2x Wide FOV Forward Camera
1x Downward Camera
1x Tail Camera
1x Long Range Forward Lidar
1x 360-Degree Collision Lidar
1x Radar Altimeter

SUPPORT EQUIPMENT

Ground Control Station
R44 AIRTRUCK Trailer

COMMAND & CONTROL (C2)

FLIGHT CONTROL SYSTEM

Full Authority Fly-by-Wire

1x 900 MHz LOS Radio
2x 5G Cellular; 1x Starlink Mini
1x Flight Termination System (Optional)

FLIGHT MODES

3-Axis RCAF Mode (always-on stability augmentation)
4-Axis TRC Mode (precision positioning and landing)
Waypoint Navigation, Terrain Avoidance
Emergency Return-to-Home

CREW & REGULATORY CONSIDERATIONS

RECOMMENDED CREW

1x Remote Pilot; 1x Visual Observer

REGULATORY APPROVAL

Experimental Category in the United States

Commercial approval in Brazil and other countries