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

MAX GROSS WEIGHT	2,500 lb (1,134 kg)
USEFUL LOAD	1,002 lb (454kg); 63 cu ft. internal volume
FUEL CAPACITY	12.5 Gal (47.3 L)

PERFORMANCE

CRUISE SPEED	109 kn (202 km/hr)
OPERATING RANGE	~5 mi (8 km) LOS
	~50 mi (80 km) BVLOS - subject to regulatory restrictions
ENDURANCE	50 min (export capable configuration)
MAX OPERATING ALTITUDE	14,000 ft (4,300 m) MSL

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 RCAH 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 Brazin and other countries