

Fact Sheet L-500TT

Liberty 500 Training Turbine

Mission

The Liberty 500TT is a single-engine, single-seat turbine rotorcraft used as a primary time builder to train students in basic rotorcraft flying skills of two bladed rotor systems commonly used in civilian and military rotorcraft.



Features

Designed by LH, the L-500TT's low fuel consumption, light weight construction, and low maintenance cost, helps reduce the overall total ownership and operational cost of this training aircraft.

This entry level turbine rotorcraft was designed as a time builder for the rotorcraft student and its 600 lb light empty weight and 500 lb useful load make it the worlds most cost effective rotorcraft time builder.

The L-500TT is powered by a powerful single stage gas power turbine engine that delivers up to 100 shaft horsepower.



Because of its excellent power-to-weight ratio, the rotorcraft can perform an initial climb of 2,000 ft or (609 m) per minute and can reach 10,000 ft or (3048 m) in less than five minutes.

The rotorcraft can be ordered with a variety of advanced avionics packages including sunlight-readable liquid crystal displays.



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Specifications: The Liberty 500TT is a single seat light turbine helicopter using a 19'2" Diameter, two bladed Semi rigid teetering rotor systems with a 500 lb useful load and powered by a 100 hp turbine engine. It has an empty weight of 600 lbs, fuel capacity of 14.7 gal, and fuel burn of 8 gph at 100 knot (115 mph) cruise speed. (Max Range, 1.75hrs/.5hr reserve 201 miles) Airspeed Limits VNE (Never Exceed Speed) at sea level is 115 knots (132 mph) CAS. For reduction of VNE with altitude, temperature and N1, see FAA Approved Rotorcraft Flight Manual. Autorotation VNE at sea level is 115 knots (132 mph) CAS. Currently Built under Kit and Amateur Built Rules.

General Characteristics

Primary Function: Entry-level turbine trainer for two bladed rotor systems.

Designer: Liberty Helicopters.

Power plant: 100 horsepower Gas Turbine engine

Fuel: Jet A, Jet B, JP4, JP8, Kerosene

Rotor span: 19.17 ft (5.84 meters)

Length: 22.5 ft (6.85 meters)

Height: 8.25 ft (2.51 meters)

Cruise Speed: 100 Knots, 115 mph, 185.2 km/hr

VNE: 115 Knots, 132 mph, 212.9 km/hr

Standard Basic Empty Weight: 600 pounds (2,955 kilograms)

Useful Load: 500 pounds/fuel

Ceiling: 15,000 feet (4572 meters)

Range: 174 nm, 201 miles (323 kilometers), Side Tank (14.7 gal)

Crew: Student Pilot

Armament: None

Date Deployed: Jan 2009

Contact Information

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