

Liberty Helicopters Fact Sheet L-2500TT

Liberty 2500 Turbine Trainer

Mission

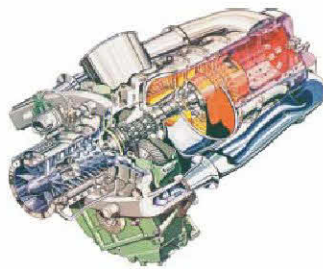
The Liberty 2500TT is a single-engine, dual-seat, multi-mission capable, advanced turbine rotorcraft. Its flying characteristics are similar to other multi-bladed rotor systems in civilian and military rotorcraft.



Features

Designed by LHL the L-2500TT's low fuel consumption, light weight construction, and low maintenance cost, helps reduce the overall total ownership and operational cost of this multi-purpose rotorcraft. This rotorcraft can be configured for a variety of mission including: Search and Rescue (SAR), Airborne Law Enforcement (ALE) missions, Reconnaissance, Surveillance, Environmental Protection, Drug Interdiction and Patrol.

The L-2500T is powered by a powerful multi stage gas power turbine engine that delivers up to 420 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.



This rotorcraft can be ordered with a variety of advanced avionics and display options dependent on mission requirements.

Contact Information

www.libertyhelicopters.asia

Offices: Ireland, USA and Asia

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Specifications: The Liberty 2500TT is a 2 + 2 seating configuration. The light turbine helicopter uses a 26.4' Diameter, 4 bladed fully actuated rotor system with a 2500 lb useful load and powered by a 420 hp turbine engine. It has an empty weight of 800 lbs, fuel capacity of 74 gal, and fuel burn of 16 gph at 100 knot (115 mph) cruise speed. (Max Range, 3.5 hrs/.5 reserve 402 miles) Airspeed Limits VNE (Never Exceed Speed) at sea level is 130 knots (149.6 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. Built under Kit and Amateur Built Rules.

Sample Mission Characteristics

| R44 | | | Liberty 2500TT | |
|---------|--|----|-------------------|---|
| 180.00 | Fuel | vs | 260.00 | Fuel |
| 200.00 | Pilot | vs | 200.00 | Pilot |
| 890.00 | Aircraft EW | vs | 800.00 | Aircraft EW |
| 1230.00 | Cargo | vs | 1240.00 | Cargo |
| 2500.00 | Aircraft GW | vs | 2500.00 | Aircraft GW |
| 12.20 | Max lb/hp | vs | 10.00 | Max lb/hp |
| 15.99 | gph Hover Calculated @ 2500 GW | vs | 20.00 | gph Hover Calculated @ 2500 GW |
| 12.79 | gph Fwd Flight Calculated @ 2500 GW | vs | 16.00 | gph Fwd Flight Calculated @ 2500 GW |
| 2638.87 | Max Drive Continuous Torque @ 2500 GW | vs | 2917.78 | Max Drive Continuous Torque @ 2500 GW |
| 3153.77 | Max Torque Reserves | vs | 4901.87 | Max Torque Reserves |
| 19.51% | Engine Reserve Safety Margin @ 2500 GW | vs | 68.00% | Engine Reserve Safety Margin @ 2500 GW |
| | | | 55.44% | More Max Reserve Drive Torque over Completion |

Primary Function: Multi-mission capabilities, Advanced Glass Cockpit and Avionics.

Designer: Liberty Helicopters Ltd.

Power plant: 420 horsepower Gas Turbine engine

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

Rotor span: 26.4 ft (8.04 meters)

Length: 28.75 ft (8.76 meters)

Height: 8.75 ft (2.66 meters)

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

VNE: 130 Knots, 149.6 mph, 240.7 km/hr

Standard Basic Empty Weight: 800 pounds (2,955 kilograms)

Useful Load: 2500 pounds/fuel

Ceiling: 15,000 feet (4572 meters)

Range: 350nm, 402 miles (648 kilometers)

Crew: student pilot and instructor plus 2

Planned Deployed: Jan 2012

Armament: None

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