

Liberty Helicopters Fact Sheet L-800TT

Liberty 800 Turbine Trainer

Mission

The Liberty 800TT is a single-engine, dual-seat primary turbine trainer used with an instructor to train students in basic rotorcraft flying skills of two bladed rotor systems commonly used in civilian and military rotorcraft.

Features

Designed by LHL, the L-800TT's low fuel consumption, light weight construction, and low maintenance cost, helps reduce the overall total ownership and operational cost of this dual training aircraft. This rotorcraft can be configured for both the civilian and military trainer markets.



This entry level turbine rotorcraft was designed with the turbine rotorcraft student in mind. This turbine rotorcraft is perfect for dual training, recurrent training, check rides for rotorcraft student. There are plenty of other mission applications for this cost effective turbine rotorcraft with and its 800 lb light empty weight and 800 lb useful load make it the worlds most cost effective turbine training rotorcraft.

The L-800TT is powered by a powerful single stage gas power turbine engine that delivers up to 250 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 will perform limited aerobatic (with no neg. gs) and can be ordered with 3 different versions of advanced avionics packages including sunlight-readable liquid crystal displays as see below. (1. Basic VFR, 2. Basic VFR with EFIS, or 3. IFR/EFIS Training Kit)



Contact Information

<http://libertyturbinehelicopters.com/>

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Specifications: The Liberty 800 is a two seat light turbine helicopter using a 24' Diameter, two bladed Semi rigid teetering rotor systems with a 800 lb useful load and powered by a 250 hp turbine engine. It has an empty weight of 740 lbs, fuel capacity of 44 gal, and fuel burn of 16 gph at 100 knot (115 mph) cruise speed. (Max Range, 2.25hrs/.5hr reserve 258 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. Built under Kit and Amateur Built Rules.

Sample Mission Characteristics

R22			Liberty 800TT	
130.00	Fuel	vs	270.00	Fuel
350.00	Pilot	vs	350.00	Pilot
890.00	Aircraft EW	vs	800.00	Aircraft EW
0	Cargo	vs	0	Cargo
1370.00	Aircraft GW	vs	1370.00	Aircraft GW
10.46	Max lb/hp	vs	10.00	Max lb/hp
10.48	gph Hover Calculated @ 1370 GW	vs	19.18	gph Hover Calculated @ 1370 GW
8.38	gph Fwd Flight Calculated @ 1370 GW	vs	15.34	gph Fwd Flight Calculated @ 1370 GW
1228.77	Continuous Drive Torque @ 1370 GW	vs	1439.05	Continuous Drive Torque @ 1370 GW
1298.14	Max Torque Reserves	vs	1575.60	Max Torque Reserves
5.65%	Engine Reserve Safety Margin @ 1370 GW	vs	9.49%	Engine Reserve Safety Margin @ 1370 GW
			21.34%	More Max Reserve Drive Torque over Completion

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

Designer: Liberty Helicopters Ltd.

Power plant: 250 horsepower Gas Turbine engine

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

Rotor span: 24 ft (7.31 meters)

Length: 27.75 ft (8.48 meters)

Height: 8.75 ft (2.66 meters)

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

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

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

Useful Load: 800 pounds/fuel

Ceiling: 15,000 feet (4572 meters)

Range: 219nm, 253 miles (407 kilometers)

Crew: student pilot and instructor

Armament: None

Basic Kit includes turbine engine, IFR training kit available

Assembly Time: approximately 600 hours

Planned Deployed: Jan 2010

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