

HILLER AIRCRAFT

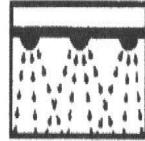


Hiller Aircraft Corporation
Remanufactured Helicopters



THE MOST EFFECTIVE AERIAL APPLICATOR IN AGRICULTURE. Whether spraying or dusting,

the Hiller UH-12 series helicopters have been the industry's most efficient aerial



applicators in world agriculture for over 35 years. They carry more payload than any other light

utility helicopter and fly lower with greater maneuverability than fixed wing aircraft. Their uncompromising

performance translates into fewer return trips for spray material and more productivity per flight hour. The rotors

create a down wash force of 2,000,000 cubic feet per minute, aiding in complete penetration of crops during spray

operations.



A PARTNER IN FORESTRY. Whether the job calls for timber harvesting reforestation,

fire detail,

or wildlife management, the Hiller UH-12 series helicopters can finish the job faster, safer,

and more efficiently. With their incomparable high altitude work capacity and ability to operate in high

temperatures, they are proven performers in suppressing both small and



large scale forest fires.

THE FLYING PICKUP TRUCK FOR CONSTRUCTION. The Hiller UH-12 series

helicopters can fly their

payload and passengers over canyons, mountains, and rivers—directly to the job site. No need to construct roads

or cranes. Just call upon the Hiller to carry loads



to their destination. Wherever power and rugged-

ness are needed, Hiller helicopters have the ability

to operate effectively.

TAKING CHARGE IN LAW ENFORCEMENT. Hiller UH-12 series helicopters are a solution to today's



aerial law enforcement for roles as diverse as police surveillance, search and rescue, harbor patrol,

and disaster relief. With their standard 46 gallon



fuel tanks, the Hillers have a flight time endurance

of nearly 3 hours, and up to 5 hours with auxiliary

tanks—important considerations for those requir-

ing continual operation from their aircraft. **A PROVEN TRAINER.** With its patented Rotomatic Flight Control

System, the Hiller UH-12 series helicopters are one of the safest and most predictable training helicopters ever

designed. Used as primary helicopter



trainers in military forces throughout the world, Hiller

helicopters have trained thousands

of pilots since the 1950s with millions of flight hours to their

credit. **UNLIMITED VERSATILITY IN A HILLER.** Through 35 years of continuing refinement, Hiller



helicopters have become known on six continents as the international workhorse of light utility

helicopters. With their no-nonsense, can-do approach in tackling the most demanding tasks, Hiller helicopters have

proven themselves capable in the harshest environments. They are built terrain-tough. Whatever any light utility

helicopter can do, a Hiller can do it better. Whether its mission is agriculture, forestry, construction, law

enforcement, pilot training, aerial photography or charter air transport, Hiller helicopters are second to none.

The UH-12E delivers more lift per dollar than any other helicopter in the world.

There's a reason why the Hiller UH-12E is one of the most popular light helicopters ever built. It gives operators what they want most:

Low price. Performance. Economical operating costs, High reliability.

This rugged machine will lift more than anything else in its class. It's flown hundreds of different types of missions. In all climates. And at all altitudes. In fact, the UH-12 holds the world's altitude record in its weight class for reciprocating engine-27,915 feet. To date, over 2,500 Hiller helicopters have been delivered to satisfied customers on six continents, and that's just the start. The longer the UH-12E is in service, the more popular it becomes.



Hiller Aircraft remanufacture program

Agricultural Operations-a Hiller Specialty

Among agriculture helicopter operators, the UH-12E has become legendary in its abilities. With full fuel, it still carries substantial loads of insecticide or other applicant. And the 305 hp Lycoming engine provides maximum reliability and economy. Because of the Hauler's ability to make tight turns, the UH-12E is up to 38% more efficient than a fixed wing aircraft. Each pass saves approximately 22 seconds. And you can load and refuel a helicopter in the field, for greater time savings. This also eliminates the need for airstrip operations. The downwash from the UH-12E's rotor also provides better crop penetration and increased drift control. You can spray the corners and edges of fields without skips or burns.



The Best Helicopter for the Job

The UH-12E isn't just limited to agricultural spraying. It's also excellent for cattle mustering, predator control, pipeline, powerline and fence patrol, and forestry and fishing operations. Naturally, the UH-12E has been service with the military. And it's been used successfully by ski patrols, search and rescue squads, photographers and law enforcement. The UH-12E is also an excellent flight trainer, and has been used as an air taxi. There's just no end to the many tasks it can do.



**Hiller Aircraft is
now taking orders
for 2002 UH-12E**

**Factory fresh
Remanufactured**

3 and 4 place in

Both

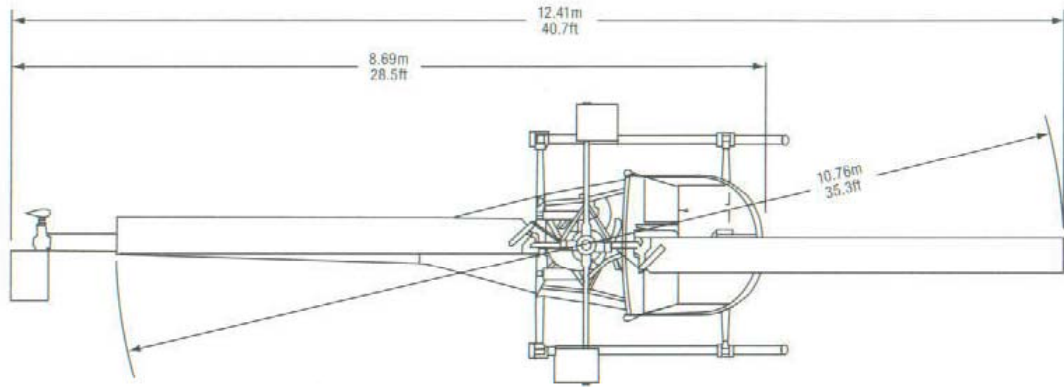
Turbine

and

piston.



UH-12E3 SPECIFICATIONS



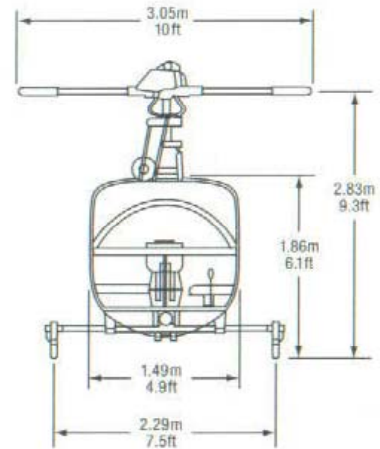
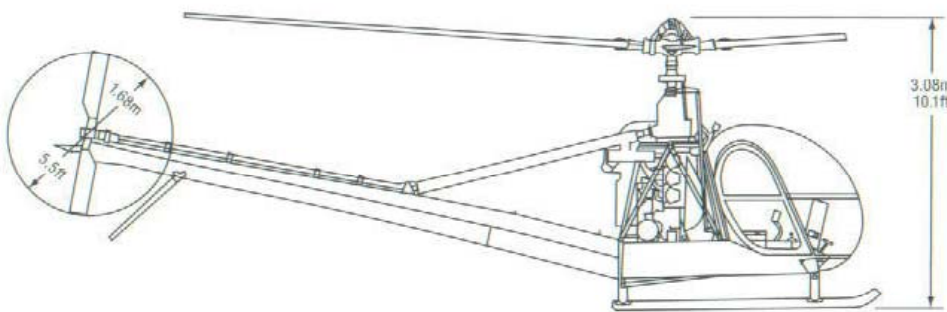
UH-12E3

POWER PLANT	
ENGINE	
LYCOMING MODEL VO-540-C2A 6 CYLINDER OPPOSED	

FUEL		
TYPE	CAPACITY	CONSUMPTION PER HOUR
100/130 AVGAS	STANDARD: 46 USG 174 LITERS	19 USG 72 LITERS
	EACH AUX. TANK: 20 USG 75 LITERS (2 MAX)	
JET A	STANDARD: 46 USG 174 LITERS	24 USG 91 LITERS
	EACH AUX. TANK: 20 USG 75 LITERS (2 MAX)	

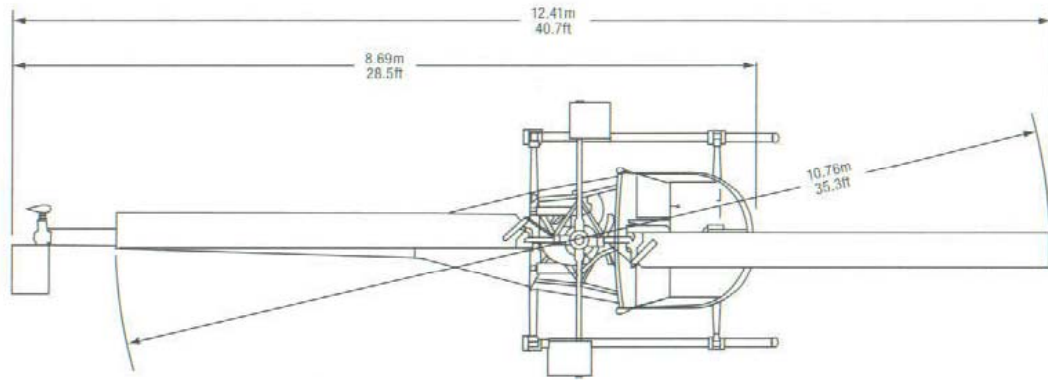
WEIGHT		
MAXIMUM TAKEOFF	EMPTY	USEFUL LOAD
3,100 LBS 1406 KG	1759 LBS 797 KG	1341 LBS 609 KG
3,100 LBS 1406 KG	1640 LBS 745 KG	1460 LBS 663 KG

UH-12E3T





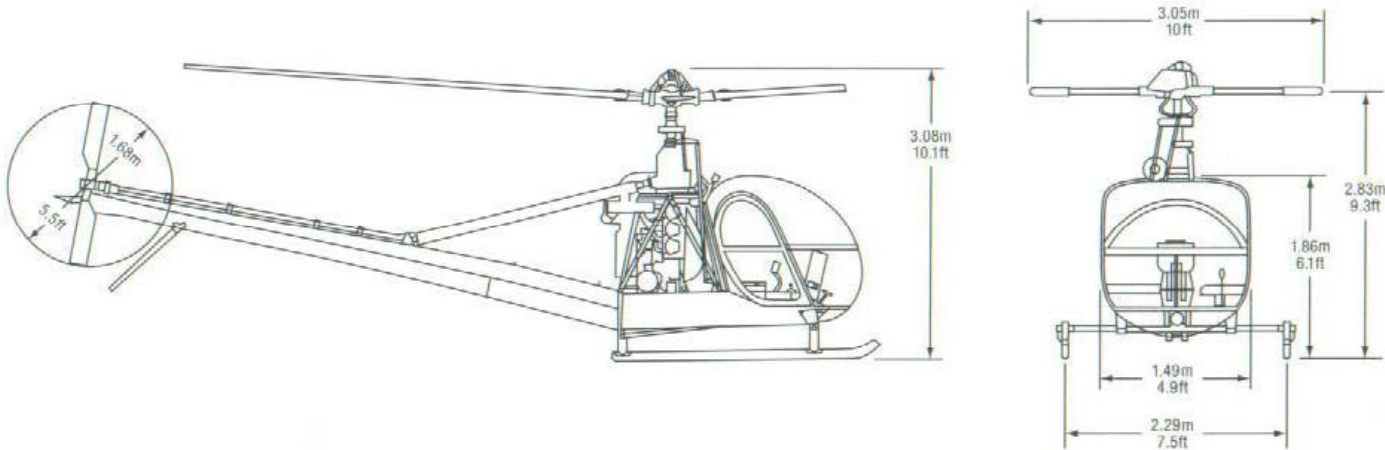
UH-12E3 SPECIFICATIONS



UH-12E3

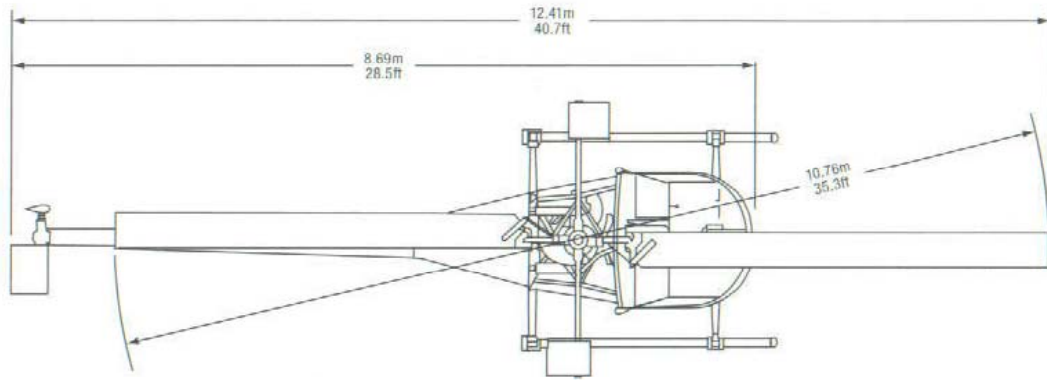
ENGINE/SHP	ENGINE DERATED TO (SHP)	% OF ENGINE POTENTIAL USED	ENDURANCE @ 90 MPH	RANGE (NO RESERVE) @ 90 MPH
345	305	88.5	232 MILES W/ STANDARD FUEL CAPACITY	2.70 HOURS W/ STANDARD FUEL CAPACITY
			433 MILES W/ AUX FUEL CAPACITY	5.00 HOURS W/ AUX FUEL CAPACITY
420	301	72.6	171.9 MILES W/ STANDARD FUEL CAPACITY	1.91 HOURS W/ STANDARD FUEL CAPACITY
			319 MILES W/ AUX FUEL CAPACITY	3.54 HOURS W/ AUX FUEL CAPACITY

UH-12E3T

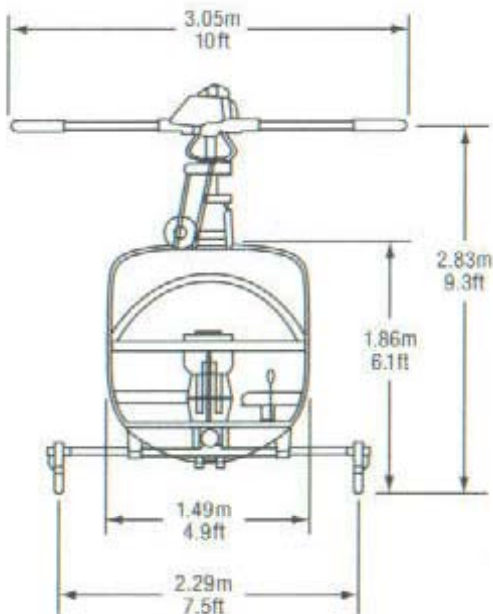




UH-12E3 SPECIFICATIONS



PERFORMANCE						
SPEED VNE	RATE OF CLIMB FEET PER MINUTE	MAXIMUM CRUISE SPEED	HOVER CEILING 2800 LBS.	SERVICE CEILING MAX. AT 2800 LBS.	HOVER CEILING 3100 LBS.	
UH-12E3	96 MPH	MAXIMUM VERTICAL 740	90 MPH	IN GROUND EFFECT 10,400 FT	15,000	IN GROUND EFFECT 7,300 FT
	155 KPH	MAXIMUM 1290	145 KPH	OUT OF GROUND EFFECT 6,800 FT		OUT OF GROUND EFFECT 3,800 FT
UH-12E3T	96 MPH	MAXIMUM VERTICAL 967	90 MPH	IN GROUND EFFECT 11,300 FT	14,000	IN GROUND EFFECT 8,600 FT
	155 KPH	MAXIMUM 1518	145 KPH	OUT OF GROUND EFFECT 8,700 FT		OUT OF GROUND EFFECT 5,600 FT



MISSIONS

- AGRICULTURAL
- AIR EVACUATION
- BOARDER PATROL
- FORESTRY
- POLICE
- TRAINING
- UTILITY
- POWER/PIPE LINE PATROL



Hiller UH-12E4 in Piston and Turbine



PERFORMANCE

ENGINE/SHP	ENGINE DERATED TO (SHP)	% OF ENGINE POTENTIAL USED	ENDURANCE @ 90 MPH	RANGE (NO RESERVE) @ 90 MPH	SPEED VNE	RATE OF CLIMB FEET PER MINUTE	MAXIMUM CRUISE SPEED	HOVER CEILING 2800 LBS.	SERVICE CEILING MAX. AT 2800 LBS.	HOVER CEILING 3100 LBS.
345	305	88.5	232 MILES W/ STANDARD FUEL CAPACITY	2.70 HOURS W/ STANDARD FUEL CAPACITY	96 MPH	MAXIMUM VERTICAL 740	90 MPH	IN GROUND EFFECT 10,400 FT	15,000	IN GROUND EFFECT 7,300 FT
			433 MILES W/ AUX FUEL CAPACITY	5.00 HOURS W/ AUX FUEL CAPACITY	155 KPH	MAXIMUM 1290	145 KPH	OUT OF GROUND EFFECT 6,800 FT		OUT OF GROUND EFFECT 3,800 FT
420	301	72.6	171.9 MILES W/ STANDARD FUEL CAPACITY	1.91 HOURS W/ STANDARD FUEL CAPACITY	96 MPH	MAXIMUM VERTICAL 967	90 MPH	IN GROUND EFFECT 11,300 FT	14,000	IN GROUND EFFECT 8,600 FT
			319 MILES W/ AUX FUEL CAPACITY	3.54 HOURS W/ AUX FUEL CAPACITY	155 KPH	MAXIMUM 1518	145 KPH	OUT OF GROUND EFFECT 8,700 FT		OUT OF GROUND EFFECT 5,600 FT

POWER PLANT

ENGINE
LYCOMING MODEL VO-540-C2A 6 CYLINDER OPPOSED
ALLISON MODEL 250 C20B TURBINE

FUEL

TYPE	CAPACITY	CONSUMPTION PER HOUR
100/130 AVGAS	STANDARD: 46 USG 174 LITERS EACH AUX. TANK: 20 USG 75 LITERS (2 MAX)	19 USG 72 LITERS
JET A	STANDARD: 46 USG 174 LITERS EACH AUX. TANK: 20 USG 75 LITERS (2 MAX)	24 USG 91 LITERS

WEIGHT

MAXIMUM TAKEOFF	EMPTY	USEFUL LOAD
3,100 LBS 1406 KG	1936 LBS 871 KG	1214 LBS 551 KG
3,100 LBS 1406 KG	1730 LBS 786 KG	1370 LBS 622 KG

STANDARD EQUIPMENT

TRANSMISSION OIL PRESSURE GAUGE
 FUEL QUANTITY SYSTEM
 ENGINE HOUR METER
 OUTSIDE TEMPERATURE GAUGE
 8-DAY CLOCK
 EDGE LIGHTED INSTRUMENT PANEL
 ELECTRICALLY CONTROLLED TRIM SYSTEM
 ANTI-COLLISION LIGHTS
 NAVIGATION LIGHTS
 LANDING LIGHT
 TINTED PLEXIGLAS CANOPY
 FABRIC UPHOLSTERY/VINYL TRIM
 SEAT BELTS AND SHOULDER HARNESSSES
 ENGINE MUFFLER
 CABIN HEAT AND DEFROSTER
 FIRE EXTINGUISHER
 LEAD/ACID BATTERY
 ALTERNATOR
 EXTERNAL POWER RECEPTACLE
 POLYURETHANE PAINT
 EXTENDED LANDING GEAR STRUTS
 GROUND HANDLING WHEELS
 CARGO HOOK HARD POINT

OPTIONAL EQUIPMENT

DUAL CONTROLS
 QUICK-RELEASE CARGO HOOK
 RADIO
 ADF
 TRANSPONDER
 INSTANTANEOUS VERTICAL SPEED INDICATOR
 ARTIFICIAL HORIZON
 LEATHER INTERIOR
 HEADSETS
 CYCLIC CONTROL GRIP
 SPRAY SYSTEM
 SPREADER SYSTEM
 INTERNAL OR EXTERNAL LITTER
 NIGHT LIGHTING EQUIPMENT
 LOUDSPEAKER SYSTEM
 FLOOR MATS
 AMPHIBIOUS/FLOAT LANDING GEAR
 REMOTE CONTROL SEARCH LIGHT
 CARGO RACKS
 STROBE LIGHTS
 AUXILIARY FUEL TANK(S)
 CUSTOMIZED PAINT SCHEME
 SLIDING WINDOW IN DOORS
 ASH TRAYS
 HYDRAULIC DRIVE KIT (TURBINE ONLY)
 AUTO REIGNITION KIT (TURBINE ONLY)
 PARTICLE SEPARATOR (TURBINE ONLY)

Why Choose Hiller

UTILITY -

- No other light turbine helicopter has more useful load than the Hiller UH-12ET - 662 Kilograms of useful load
- The Hiller UH-12ET has a rotor diameter of 10.76 meters allowing a wider spray boom width than any other light helicopter in its class
- A simple rugged and classic design - no composites or honeycomb materials
- Excellent visibility
- Both day and night VFR flight capabilities
- May be modified for emergency military use as a light observation or attack aircraft, potential armament includes machine guns, napalm and aerial deployed mines



RELIABILITY -

- Hiller airframes are still in service that were manufactured in 1950's
- Excellent corrosion resistance
- Over 110 million flight hours have been accumulated on the more than 26 thousand Rolls Royce Allison Model 250 engines built to date
- Over 10 million flight hours have been accumulated on Hiller UH-12 series of aircraft

SERVICE -

- Only Hiller publishes complete maintenance manuals including overhaul manuals for major components - You control who does the maintenance not a factory repair station

COMMONALITY -

- The UH-12ET is the same basic airframe as the UH-12E aircraft
- The Rolls Royce Allison Model 250 C20B engine is the most common commercial helicopter engine ever made.

EXPERIENCE -

- Over one thousand UH-12E aircraft have been manufactured
- The UH-12 has been used by over 30 governments world wide for military, police and agricultural uses

HILLER AIRCRAFT



PERFORMANCE COMPARISON

Specification	UH-12C H-23C	UH-12E3 OH-23	300C	F-28	R-22	R-44
Maximum Weight	2500 lbs.	3100 lbs.	2050 lbs.	2600 lbs.	1370 lbs.	2400 lbs.
Empty Weight	1600 lbs.	1759 lbs.	1100 lbs.	1570 lbs.	824 lbs.	1400 lbs.
Useful Load	840 lbs.	1341 lbs.	950 lbs.	1030 lbs.	546 lbs.	1000 lbs.
Passenger Seats	3	3	3	3	2	4
Max. Flt Time (Std Fuel)	2.2 hrs	2.7 hrs.	3.3 hrs.	3.5 hrs.	2.2 hrs.	2.5 hrs.
Max. Flt Time (Aux Fuel)	3.4 hrs.	5.0 hrs.	5.3 hrs.	4.3 hrs.	3 hrs.	3.4 hrs.
Econ Cruise Speed	60 kts.	78 kts.	78 kts.	96 kts.	83 kts.	108 kts.
Max Cruise Speed (V _{ne})	73 kts.	84 kts.	88 kts.	97 kts.	102 kts.	120 kts.
Max ROC SL (ISA)	790 fpm	1290 fpm	750 fpm	1150 fpm	1000 fpm	1000 fpm
Oper. Ceiling	12,000 ft.	15,000 ft.	10,200 ft.	12,000 ft.	14,000 ft.	14,000 ft.
HIGE (ISA)	8,500 ft.	10,100 ft.	6,000 ft.	13,200 ft.	6,970 ft.	7,000 ft.
HOGE (ISA)	7,200 ft.	6,800 ft.	2,700 ft.	8,700 ft.	5,100 ft.	5,000 ft.
Range	200 NM	200 NM	195 NM	260 NM	200 NM	275 NM
Range (Aux Fuel)	325 NM	420 NM	317 NM	318 NM	300 NM	400 NM
Engine	Franklin 6V-335-B	Lycoming VO-540-C2A	Lycoming HIO-360D1A	Lycoming HIO-360-F1AD	Lycoming 320-B2C	Lycoming O-540-F1B
Engine HP	210	305	190	225	160	225
TBO Airframe	1,200 hrs.	1,200 hrs.	1,900 hrs.	1,200 hrs.	1,200 hrs.*	2,200 hrs.*

* Airframe manufacturer requires aircraft be returned to factory or authorized service center for complete overhaul



THE WORLD'S MOST VERSATILE, COST-EFFECTIVE HELICOPTERS