



DIRECT OPERATING COSTS

FUEL AND LUBRICANTS

Fuel cost (25 gph cruise) @ \$6.59/gal.	\$164.75	
Lubricants @ 3%	\$6.75	\$171.50

SCHEDULED AND UNSCHEDULED MAINTENANCE LABOR

Includes scheduled inspections, component removal for overhaul/exchange, retirement items and unscheduled maintenance. (Calculations based on a \$115/hr. labor rate @ .58 hr per flight hour.)	\$72.50
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RESERVE FOR COMPONENT OVERHAUL

Main Rotor Gearbox	(based on a fixed overhaul price of \$27,929 @ 1200 hrs)	\$ 23.27
Tail Rotor Gearbox	(based on a fixed overhaul price of \$9,237 @ 1000 hrs)	9.24
Overrunning Clutch	(based on a fixed overhaul price of \$12,512 @ 2400 hrs)	5.21
Starter Generator (150SG117Q-4-1)	(based on a fixed overhaul/exch price of \$11,219 @ 1000 hrs)	11.22
Lower Pulley O/H	(based on a fixed overhaul price of \$11,696 @1200 hrs)	9.75
		\$58.69

RESERVE FOR SPARE PARTS

Scheduled and unscheduled parts consumption using available actual experience and projections.	\$43.49
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RESERVE FOR TURBINE ENGINE

Includes scheduled and unscheduled maintenance, replacement of life-limited parts and line maintenance. (\$5.00 per hour)	\$103.63
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RESERVE FOR RETIREMENT ITEMS

ITEM	COST	QTY		RETIREMENT LIFE	
Engine Int. Drive Shaft (4131003)	\$11696.00		@	3,500	3.34
Tail Rotor Spindle (28-150074)	\$3151.00		@	1,200	2.63
Tension Torsion Straps (2 year limit) (ECD084)	\$3431.00	(3)	@	1,200	8.58
Drive Belt (ECD4000)	\$2173.00		@	5,000	0.41
Tail Cone Vibration Beam (4112034)	\$1943.00		@	3,835	0.51
Cyclic Vibration Beams (4166024)	\$1944.00	(2)	@	1,200	3.24
Main Rotor Hub Plates (28-14280/28-14281)	\$5560.00	(2)	@	4592	2.42

Estimated Total Hourly Retirement Cost:	\$21.13
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TOTAL DIRECT OPERATING COST PER HOUR:

\$470.94

Note: All hours and labor rates are based on field averages performed by experienced mechanics. Maintenance hours and costs to perform above noted tasks will vary due to operating conditions and the general care given the helicopter as well as the shop rate charged by the individual repair station. "Preventive maintenance is the cheapest maintenance." Aircraft that are infrequently used will probably experience higher hourly operating costs.

480B STANDARD EQUIPMENT

FUSELAGE

- Welded Steel Central Pylon
- Composite Cabin Assembly with Two Removable Doors, Tinted Plexiglass Windscreens, Top & Side Windows
- Semi-monocoque Aluminum Tail Cone with Tail Rotor Extension Tube
- Tail Rotor Guard
- Empennage with Fixed Incidence Horizontal Stabilizer, Dual Composite Vertical Fins
- Skid Type Landing Gear with Removable Dual Ground Handling Wheels
- Landing Gear Cross Tubes & Four Individual Oleo Struts
- Landing Leg Fairings
- External Paint, (2) Color Paint Scheme
- Baggage Compartment
- Maintenance/Refuel Steps
- Entry Steps
- High Temperature Screened Engine Doors

POWERPLANT

- Rolls Royce Model 250-C20W Turboshaft Engine
- 150 Amp Starter/Generator
- Bendix Fuel Control
- Engine-Mounted Fuel Pump
- In Line Scavenge Oil Filter with Visual Bypass Alert Button
- Six Quart Oil Tank
- Oil Cooler & Lines
- Vernier N2 Trim Control Actuator
- N2 Droop Compensator
- Two Engine Chip Detectors
- Torque Measuring Transmitter
- Engine Oil Temperature & Pressure Transducer
- Engine Wash Kit
- Fire Detection System

INLET SYSTEM

- Dual Swirl Tube Particle Separators

FUEL SYSTEM

- Two Composite Structural Bladder Compartments
- Three Sump Drains
- Low Fuel Warning Transmitter
- Capacitance Fuel Quantity Measuring System
- Hinged Fuel Cap

DRIVE SYSTEM, ROTORS & CONTROLS

- Three-Bladed Fully Articulated Rotor System with T/T Straps
- Corrosion-Protected Aluminum Blades
- Internal Environmentally Protected Swashplate with Bearings
- Rapid Response Electro-Mechanical Trim System
- Planipetally Balanced Fully Adjustable Directional Pedal Controls
- Tail Rotor Hub, Two-Bladed Aluminum Tail Rotor with Stainless Steel Leading Edge Strip, Equipped with Needle Teeter Bearings
- Standard Collective & Cyclic Controls
- Mechanical Controls (No Hydraulics)
- Tracking Provisions
- Main & Tail Rotor Gearbox Chip Detectors

ELECTRICAL EQUIPMENT

- 28-Volt DC System,150 Amp Fully Circuit Breaker Protected
- 18 Amp-Hour Lead Acid Battery
- Dual Battery Location
- Grounding Receptacle
- External Power Receptacle
- Night Lighting:
 - Anti-Collision Strobes
 - Overhead LED Dome Light
 - Instrument Lights
 - LED Position Lights
 - Vertically Adjustable LED Landing Light

CABIN ACCOMMODATIONS

- Center Pedestal Instrument Console
- Centrally Located Radio Stack
- Five Crew/Passenger Seats with Belts & Shoulder Harnesses
- Ram Air Ventilation
- Two Map Pockets
- Carpet or Vinyl Flooring
- Sliding Vent Windows
- Two Pop-Out Vents, 1 per Opera Window

INSTRUMENTS

- Garmin G500TXi EFIS
 - Airspeed Tape
 - Altimeter Tape
 - Attitude Indication
 - HSI
 - Turn and Slip Indication
 - Rate of Climb Indication
- Mid-Continent Standby Attitude Module
- Howell EIS w/Reversionary Backup Display
 - Dual Tachometer
 - Torque Indicator
 - N1 Indicator
 - T.O.T. Indicator
 - Fuel Quantity Indicator
 - Transmission Oil Temp
 - Engine Oil Temperature/Pressure
 - Dual Amp/Volt
 - Caution/Annunciator Indication
- Master Caution Light

MISCELLANEOUS

- Aircraft Log Book
- Engine Log Book
- Aircraft Flight, Maintenance, and IPC Manuals
- Hub Cover
- Blade Tie-down Kit

AVIONICS

- Avionics Master Switch
- Dual US Stereo Headset Jacks
- Avionics Cooling Fan



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ENSTROM



OPTIONAL EQUIPMENT

AIRCRAFT EQUIPMENT

		WEIGHT (lbs)
HT-1	Fire Extinguisher - Halotron, 2.5lb	5.6
HT-2	First Aid Kit	1.2
HT-2-1	Backwall Mounted First Aid Kit	TBD
HT-3	Floor Switch (Intercom/Transmit)	0.2
HT-7	Custom Interior, Partial Leather Seats	NA
HT-8	Custom Interior, All Leather Seats	NA
HT-9	Custom Paint Scheme	NA
HT-10	Shadin miniFlo Fuel Flow Totalizer	2.6
HT-13	De-mister	1.2
HT-15	High Visibility Paint Scheme, Main Rotor	NA
HT-16	High Visibility Paint Scheme, Tail Rotor	NA
HT-17	Additional Paint Color	NA
HT-18	Hour Meter to Record Engine Operating Time	0.5
HT-19	Bleed Air Heater Defroster	11.0
HT-20	Baggage Compartment Extension	3.2
HT-21	Storage Tray	1.5
HT-22	Pneumatic Door Openers, Cabin (Set)	0.8
HT-23	Pneumatic Door Openers, Engine Compartment (Set)	0.7
HT-24	Airframe Fuel Filter	6.25
HT-25	Cockpit Overhead Cooling Fan	2.25
HT-26	Dual Controls with Dual Start	10.0
HT-28	Blade Tape	1.0
HT-29	APU Access Door	TBD
HT-30	Air Conditioner (2 Evaporator)	74.4
HT-30-1	Air Conditioner (2 Evaporator - Backwall)	77.3
HT-30-2	Air Conditioner (3 Evaporator)	87.2
HT-31	Anti-Collision Beacon; Whelen LED 70905 Series - Top and Bottom	2.75
HT-35	Single Ground Handling Wheel Configuration	TBD
HT-36	Sealed Battery	TBD
HT-37	Airwolf 3-Year/1200hr TT Straps (Exchange)	TBD
HT-38	Heated Pitot Tube	1.25
HT-39	Heavy Duty Skid Shoes	TBD
HT-40	Dual Wide Instrument Panel	TBD

AIRCRAFT FLIGHT EQUIPMENT

		WEIGHT (lbs)
ET-3	Turn & Slip, MC-3TZ	1.7
ET-4	Castleberry Attitude Gyro	TBD
ET-5	Castleberry Directional Gyro	TBD
ET-6	Vertical Speed Indicator	1.4

SPECIAL MISSION EQUIPMENT

		WEIGHT (lbs)
MT-1	Emergency Pop-out Floats (Includes Build-up)	104.0
MT-2	Build-up for Emergency Float Installation	12.9
MT-5	Onboard Systems Cargo Hook	11.56
MT-6	Cargo Hook Provisions Only	2.48
MT-7	NVG Compatible Cockpit	TBD
MT-8	Internal Litter Kit	TBD
MT-12	Camera Mount Hard Point	6.1
MT-13	Starburst SX-5 Searchlight	37.1
MT-17	Snow Shoes (Aft Shoes Only)	19.0
MT-17-1	Snow Shoes (Add Front Shoes)	7.4
MT-24	Isolair 3900-480 Agricultural Spray System	203.0
MT-25	Safe Flight Powerline Detection System	0.8
MT-26	Camera Door	TBD
MT-27	Bambi Bucket	TBD
MT-27-1	Bambi Bucket Provisions Only	TBD

SHIPPING PREPARATION

		WEIGHT (lbs)
	Ex-Works KMNM	NA
ST-1	Break Down & Crating for Airfreight	NA
ST-2	Break Down & Crating for Oceanfreight	NA
ST-3	Ferry	NA

AVIONICS

		WEIGHT (lbs)
AT-1	David Clark Headsets H10-30 (Each)	1.4
AT-2	David Clark Headsets H10-56 (Each)	1.4
AT-54	David Clark Headset Adapter, Lo-Hi Impedance Model 40880G-01	0.75
AT-3	Bose Series X Active Noise Canceling Headsets (Each)	1.2
AT-4	Bose Series X/Zulu P Interface Unit Only (Each)	0.25
AT-5	Lightspeed Zulu Headset	1.2
AT-8	PS Engineering PM 3000 VOX Intercom (stereo)	0.75
AT-10	NAT AMS 44 Audio/Switch Panel	4.3
AT-10-1	NAT AMS 44 Audio/Switch Panel with MFD Interface	4.8
AT-17	King KY 196A (24V) Com	4.2
AT-22	KCS 55A Compass System with KI 525 HSI	4.58
AT-24	King KR 87 ADF (Digital) with KI 227	5.7
AT-27	King KRA 405B-15 Dual Antenna Radar Altimeter	6.36
AT-34	NAT NPX 138 FM Transceiver	3.75
AT-35	12 Volt Converter with Two Outlets	0.15
AT-40	PS Engineering PAV 80 CD-DVD-FM Radio	2.4
AT-41	Emergency Locator Transmitter, Artex C406-1 HM	4.63
AT-44	Avidyne TAS 600 Traffic System	TBD
AT-51	Garmin GTN 650 GPS/COM/NAV with CDI	17.6
AT-51-1	Garmin GTN 650 GPS/COM/NAV with EHSI Output	15.0
AT-51-2	Garmin GTN 650 GPS/COM	13.6
AT-53	Garmin GNC 255A NAV/COM with CDI	4.46
AT-53-1	Garmin GNC 255A NAV/COM with EHSI Interface	4.46
AT-55-1	Garmin GMA 350Hc Audio Panel	4.4
AT-55-2	Garmin GMA 350Hc Audio Panel with Remote Marker Beacon Indication	5.4
AT-56	King KR22 Marker Beacon Receiver	1.6
AT-57	Free Flight RA-4500 Radar Altimeter with RAD-40 Display	4.5
AT-58	KTR-908 VHF Extended Range Com	6.6
AT-59	KTR-909 UHF Com, Receive Only	6.6
AT-62	Aspen 1000H Pro PFD	3.2
AT-62-1	Aspen 2000H Pro PFD/MFD	6.4
AT-64-1	Garmin GTX 345 Transponder w/GAE-12 Alt Encoder	
AT-65	Garmin GTN 750 GPS/COM/NAV with CDI	11.3
AT-65-1	Garmin GTN 750 GPS/COM/NAV with EHSI Output	11.3
NPN	Kannad Integra 406AF-H ELT	2.5
NPN	Garmin GTR 225 Com	7

OPTION PACKAGES

AIRFRAME CONVENIENCE PACKAGE

HT-1	Fire Extinguisher - Halotron, 2.5lb
HT-19	Bleed Air Heater Defroster
HT-20	Baggage Compartment Extension
HT-21	Storage Tray
HT-22	Pneumatic Door Openers, Cabin (Set)
HT-23	Pneumatic Door Openers, Engine Compartment (Set)
HT-26	Dual Controls with Dual Start
HT-29	APU Access Door

AIRFRAME APPEARANCE PACKAGE

NPN	Custom Interior
HT-9	Custom Paint Scheme by TAOD
HT-15	High Visibility Paint Scheme, Main Rotor
HT-16	High Visibility Paint Scheme, Tail Rotor
NPN	Interior Closeouts

VFR AVIONICS PACKAGE

NPN	Garmin GTN 650Xi GPS/NAV/COM
AT-64-1	Garmin GTX 345 Transponder with ADS-B In/Out
AT-55-1	Garmin GMA 350Hc Audio Panel
NPN	Kannad ELT

VFR PLUS AVIONICS PACKAGE

NPN	Garmin GTN 750Xi GPS/NAV/COM
NPN	Garmin GTX 345R Remote Mount Transponder w/ ADS-B In/Out
NPN	Garmin GMA 35 Remote Audio Panel
NPN	Garmin GTR 225 COM Radio
NPN	Kannad ELT
NPN	Bose/LEMO Compatible Headset Jacks

IFR TRAINING AVIONICS PACKAGE

NPN	Garmin GTN 750Xi GPS/NAV/COM
NPN	Garmin GTX 345R Remote Mount Transponder w/ ADS-B In/Out
NPN	Garmin GMA 35 Remote Audio Panel with Marker Beacon
AT-53-1	Garmin GNC 255A NAV/COM
AT-57	Free Flight RA-4500 Radar Altimeter with RAD-40 Display
NPN	Kannad ELT
NPN	Bose/LEMO Compatible Headset Jacks

