

SPECIFICATIONS



BELL 505





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The World's Most Advanced Short Light Single

BELL 505 OVERVIEW

The Bell 505 is the latest-generation short light single-engine helicopter. The Bell 505 is powered by the Safran Helicopter Engines (HE) Arrius 2R engine featuring a first-in-class, dual channel Full Authority Digital Engine Control (FADEC) engine control that delivers exceptional performance along with a maximum cruise speed of over 125 kts (232 kph). A first-in-class fully integrated Garmin G1000H™ flight deck delivers an unparalleled flying experience by greatly reducing pilot work load. The Garmin G1000H™ flight deck featuring dual 10.4-inch (26.4 cm) displays provides critical flight information for crews at a glance, enhancing situational awareness and safety.

The reliability, speed, performance, and maneuverability of the Bell 505 helicopter is integrated with a flat floor, open cabin that is configurable for a wide variety of missions and payloads. The spacious cabin can be configured to carry up to 4 passengers or configured for internal cargo missions by removing rear cabin seats and/or copilot seat. Passenger comfort is enhanced with a quiet and smooth ride along with a large rear cabin that provides ample legroom and headroom. Clamshell doors, located on the copilot side, open to a wide 55 inches (140 cm) to allow for easy ingress/egress from the aircraft. Large rear cabin windows and wrap around windscreens in the cockpit provide excellent visibility for passengers and enhance situational awareness for the crew. These features combined with a proven and reliable drivetrain and rotor system make the Bell 505 a true multi-mission aircraft in the short light single-engine market.

The Bell 505 design team has developed the aircraft with direct input from a council of customer advisors representing expertise in all facets of the helicopter industry. The customer advisory council has participated in the aircraft design process since 2011 and has provided critical input to the following areas:

- Baggage capacity and access
- Engine and avionics suppliers
- Kit configurations
- Maintenance access
- Fleet integration
- Training requirements
- Operating economics
- Payload range capability
- Cockpit integration and situational awareness
- Cabin comfort
- Maintainability/supportability

The platform is certified to the most recent TCCA, FAA and EASA Part 27 regulations as well as the first helicopter in its class to utilize MSG-3 to develop the aircraft maintenance plan.

Bell's products are backed by our renowned in-service support and voted #1 by our customers for 23 years running. The Bell 505 proves you don't have to sacrifice comfort for performance.



The Bell 505.

The World's Most Advanced Short Light Single

BELL 505 FULLY INTEGRATED AVIONICS

The Bell 505, featuring the Garmin G1000H™ flight deck system, provides unparalleled crew situational awareness through the use of a fully integrated glass flight deck coupled with an advanced dual channel FADEC engine control system, resulting in enhanced safety levels and mission capabilities. The cockpit design features wrap around windscreens offering excellent crew visibility that results in increased situational awareness and safety. The aircraft systems are fully-integrated with the Garmin G1000H™ avionics suite to display critical flight instruments, audio alerts and CAS messages. One of the design goals for the Bell 505 team was to increase ease of operations and lower pilot workload. These goals have been realized through the combination of an advanced FADEC engine control system and a fully-integrated avionics suite.



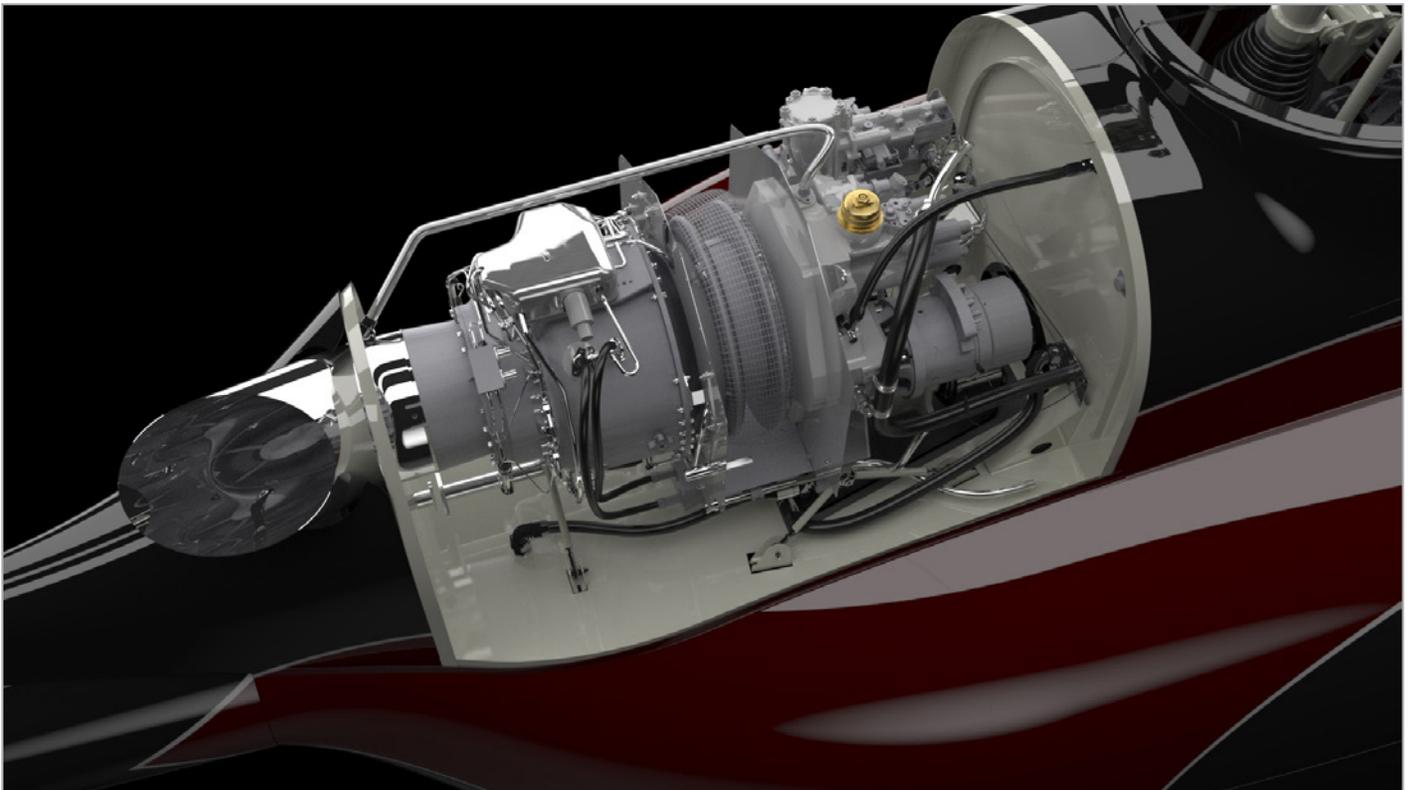
The Bell 505 Garmin G1000H™ Flight Deck provides the next level of safety.

The World's Most Advanced Short Light Single

BELL 505 DUAL CHANNEL FADEC ENGINE CONTROLS

As the first helicopter in its class to offer a dual channel Full Authority Digital Engine Control (FADEC) and fully integrated glass cockpit, the Bell 505 is the future of safety. The Safran HE Arrius 2R engine control is provided through a dual channel FADEC which increases operational safety by lowering pilot workload. The dual channel FADEC offers added protection with the incorporation of an automatic backup Auxiliary Control Unit. There are many features on the Safran HE Arrius 2R engine that increase safety and truly differentiate it from the competition including:

- Dual-channel FADEC
- Auxiliary Control Unit (backup for HMU)
- Automatic startup
- Surge and flame-out protection
- Engine parameter recording for maintenance (BOOST compatible)
- Data stored in avionics for easy access
- Automatic cycle and flight hour counting



The Bell 505's Safran HE Arrius 2R Engine features a dual channel FADEC with automatic backup.

Specification Summary (U.S. Units)

WEIGHTS (LB)

Empty Weight (Base Aircraft)	2,180	External Load Gross Weight	4,475
Internal Gross Weight	3,680	Maximum External Load (Cargo Hook Limit)	2,000
Useful Load (Base Aircraft)	1,500		

PERFORMANCE SUMMARY (International Standard Day except as noted)

			Takeoff Gross Weight (lb)		
			3,000	3,400	3,680
IGE Hovering Ceiling	ISA	ft	20,000	17,100	14,450
	ISA + 20 °C	ft	16,320	12,300	9,700
	ISA + 30 °C	ft	14,240	9,980	6,650
OGE Hovering Ceiling	ISA	ft	17,400	13,250	10,460
	ISA + 20 °C	ft	12,740	8,580	5,430
	ISA + 30 °C	ft	10,590	5,400	1,620
Service Ceiling (MCP), 100 ft/min	ISA	ft	20,000	20,000	18,610
	ISA + 20 °C	ft	20,000	17,020	14,590
	ISA + 30 °C	ft	19,000	15,160	12,410
Maximum Cruise Speed (True Airspeed)	SL, ISA	ktas	128	126	125
	SL, ISA + 20 °C	ktas	123	121	118
Cruise at Long Range Cruise Speed (LRC)					
Range (Standard Fuel, No Reserve)	SL, ISA	nmi	318	311	306
LRC Speed (Average True Airspeed)		ktas	113	112	112
Range (Standard Fuel, No Reserve)	4000 ft, ISA	nmi	355	344	333
LRC Speed (Average True Airspeed)		ktas	112	113	112
Endurance at Loiter Speed (60 kias) (Standard Fuel, No Reserve)	SL, ISA	hr	4.1	4.0	3.9
	4000 ft, ISA	hr	4.5	4.3	4.2

ENGINE RATING

Safran HE Arrius 2R (uninstalled thermodynamic rating)	
Takeoff Horsepower	505 SHP
Maximum Continuous	459 SHP

TRANSMISSION RATING (Engine Output)

Takeoff Horsepower (5 minutes)	475 SHP
Maximum Continuous	428 SHP

FUEL CAPACITY (Usable)

Type	Aviation Turbine
Standard	84.85 US Gallons

Specification Summary (Metric Units)

WEIGHTS (KG)

Empty Weight (Base Aircraft)	989	External Load Gross Weight	2,030
Internal Gross Weight	1,669	Maximum External Load (Cargo Hook Limit)	907
Useful Load (Base Aircraft)	680		

PERFORMANCE SUMMARY (International Standard Day except as noted)

			Takeoff Gross Weight (kg)		
			1,361	1,542	1,669
IGE Hovering Ceiling	ISA	m	6,096	5,212	4,404
	ISA + 20 °C	m	4,974	3,749	2,957
	ISA + 30 °C	m	4,340	3,042	2,027
OGE Hovering Ceiling	ISA	m	5,304	4,039	3,188
	ISA + 20 °C	m	3,883	2,615	1,655
	ISA + 30 °C	m	3,228	1,646	494
Service Ceiling (MCP), 0.5 m/sec	ISA	m	6,096	6,096	5,672
	ISA + 20 °C	m	6,096	5,188	4,447
	ISA + 30 °C	m	5,791	4,621	3,783
Maximum Cruise Speed (True Airspeed)	SL, ISA	km/h	237	233	231
	SL, ISA + 20 °C	km/h	228	224	218
Cruise at Long Range Cruise Speed (LRC)					
Range (Standard Fuel, No Reserve)	SL, ISA	km	588	576	566
LRC Speed (Average True Airspeed)		km/h	209	208	208
Range (Standard Fuel, No Reserve)	1,200 m, ISA	km	657	638	617
LRC Speed (Average True Airspeed)		km/h	208	208	208
Endurance at Loiter Speed (60 kias) (Standard Fuel, No Reserve)	SL, ISA	hr	4.1	4.0	3.9
	1,200 m, ISA	hr	4.5	4.3	4.2

ENGINE RATING

Safran HE Arrius 2R (uninstalled thermodynamic rating)	
Takeoff Horsepower	377 kW
Maximum Continuous	342 kW

TRANSMISSION RATING (Engine Output)

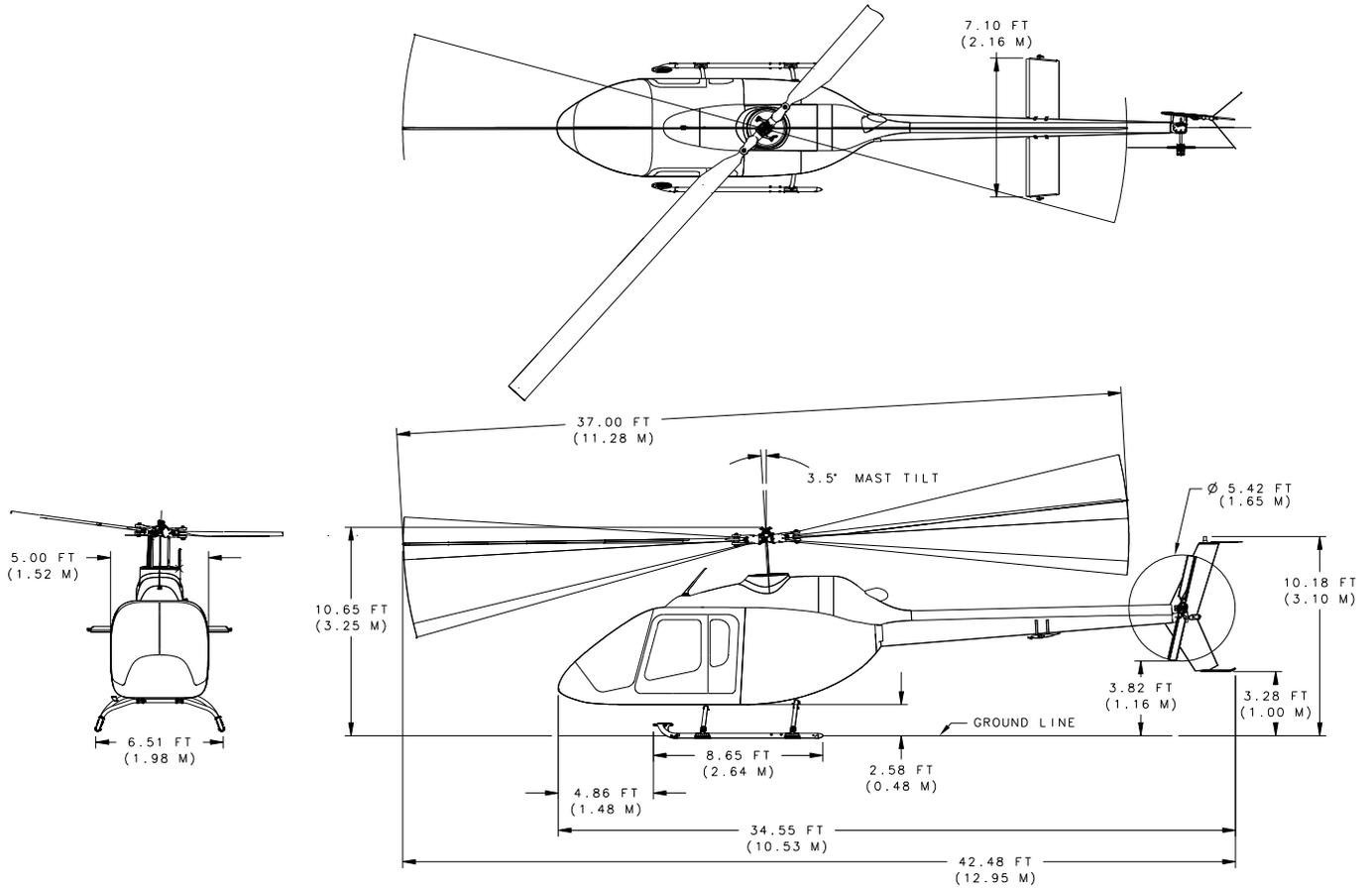
Takeoff Horsepower (5 minutes)	354 kW
Maximum Continuous	319 kW

FUEL CAPACITY (Usable)

Type	Aviation Turbine
Standard	321 Liters

Helicopter Dimensions

EXTERNAL DIMENSIONS



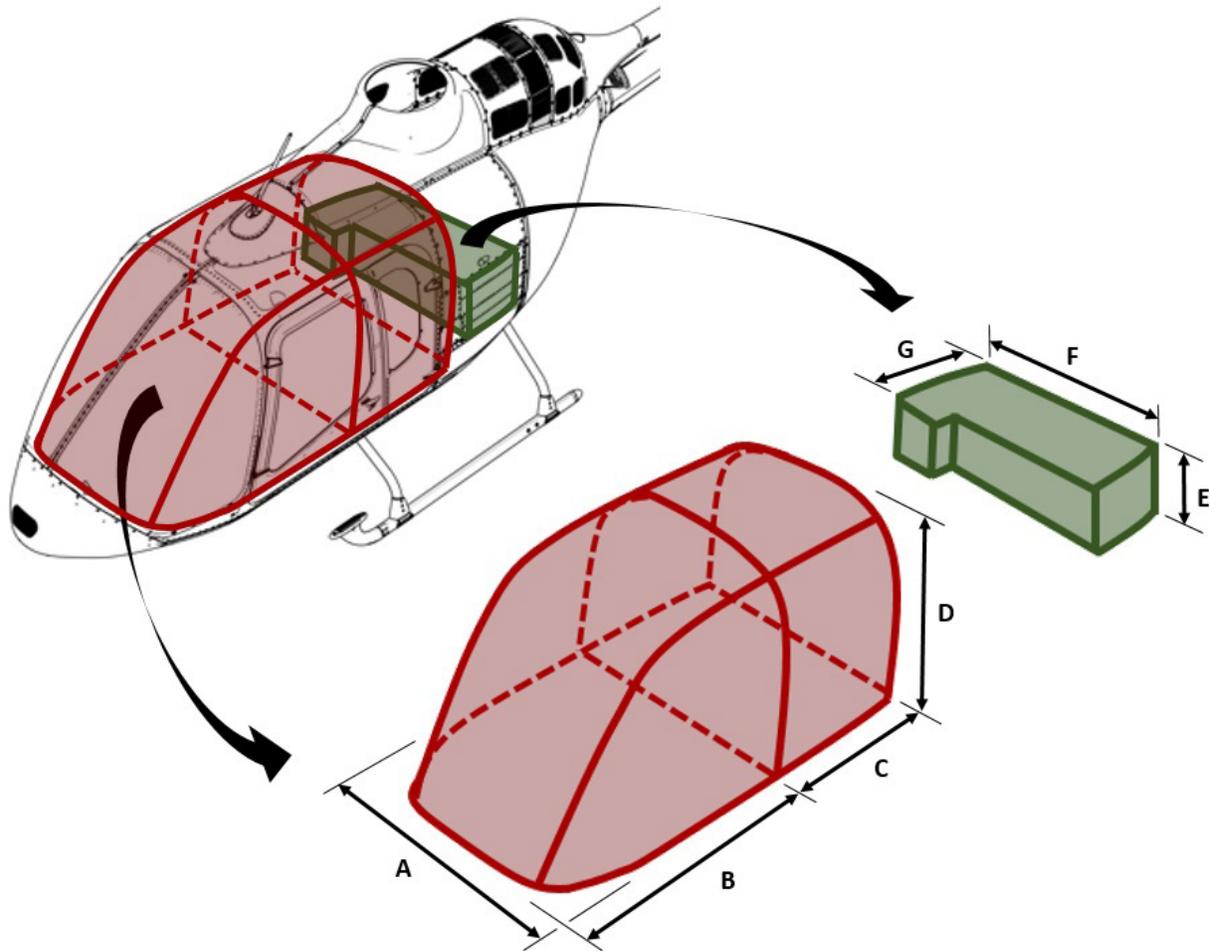
Bell 505 External Dimensions.



Bell 505.

Helicopter Dimensions

INTERNAL DIMENSIONS



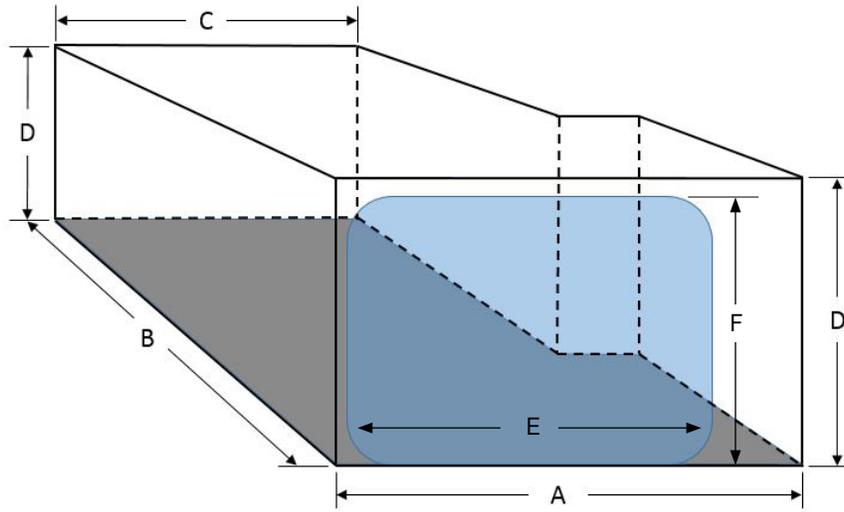
Dimension *	in	cm
A	56	142
B	53	135
C	33	84
D	53	84
E	18	46
F	55	140
G	32	82

Volume *	US Units	Metric
Total cabin volume (excluding pilot area)	99 ft ³	2.80 m ³
Rear cabin volume	61 ft ³	1.73 m ³
Copilot volume	38 ft ³	1.08 m ³
Floor Loading *		
Total cabin floor area (excluding pilot area)	22 ft ²	2.04 m ²
Cabin floor loading	55 lb/ft ²	269 kg/m ²
Cargo loading not to exceed	425 lb	129 kg

NOTE: * Volumes and dimensions are approximate.

Helicopter Dimensions

INTERNAL DIMENSIONS



Dimension *	in	cm
A	32	82
B	55	140
C	25	65
D	18	46
E	22.2	56.4
F	16.1	41

Baggage compartment *		
Baggage volume	18 ft ³	0.51 m ³
Baggage Floor Loading *		
Baggage floor loading	50 lb/ft ²	244 kg/m ²
Total baggage floor capacity	250 lb	113 kg

NOTE: * Volumes and dimensions are approximate.

Garmin G1000H™ Avionics Flight Deck

The Bell 505 is the first helicopter in its class to incorporate a fully integrated flight deck. The Garmin G1000H™, featuring dual 10.4-inch (26.4 cm) displays, is designed to improve situational awareness and reduce pilot workload through easy to read displays of critical flight information, tuning of communication and navigation frequencies, and simple flight planning management. The Bell 505's standard configuration G1000H™ Flight Deck can be upgraded to include Helicopter Synthetic Vision Technology (HSVT) that gives pilots a 3D depiction of terrain, obstacles, traffic and more in any visibility condition. The PFD boasts a Power Situation Indicator (PSI) to provide critical flight information in a centralized location. The system has two SD card slots to facilitate data input/output tasks such as flight plan and database uploading or critical flight data downloads. The system takes advantage of the latest in display, computer processing, and digital data bus technology to provide a high degree of redundancy, reliability, and flexibility.

The basic ship main components of the Garmin G1000H™ Integrated Avionics system includes:

- Two 10.4-inch (26.4 cm) GDU high-resolution LCD displays
- One GIA 63H integrated avionic units, including:
 - GPS / WAAS receiver
 - VHF COM transceiver
 - VHF NAV and glideslope receivers
 - Aural alert generation
- GEA 71H engine and airframe unit (signal processing of engine parameters and major system sensors)
- GMA 350H audio panel
- GTX 33H Extended Squitter (ES) Mode S transponder
- GSU 75 Air Data Attitude Heading Reference Unit (ADAHRS)
- GMU 44 magnetometer
- Standby Attitude Module (SAM)



BELL 505 FLIGHT DECK

System	Description
Two-display system	Two 10.4-inch (26.4 cm) flat panel high-resolution LCDs, interchangeable for Primary Flight Display (PFD) or Multi-Function Display (MFD)
Flight Instruments	Integrated on PFD with stand-by Flight Display
Engine Instruments	Integrated on PFD / MFD with Power Situation Indicator (PSI), Engine Indication System (EIS), fuel flow, automated power assurance check
EICAS & Audio Alerts	Engine Indicating and Crew Alerting System (EICAS) integrated on PFD / MFD Audio alerts integrated into intercom system
COM/NAV	Single COM / NAV / GPS, WAAS, Mode S Transponder with Extended Squitter (ES), ADS-B out, FMS, auto-tuning
Situational Awareness	Integrated on PFD / MFD, Traffic Information System (TIS), Moving Map, Fuel and NAV range, optional TAS with ADS-B, HTAWS, and Synthetic Vision System
Intercom	5-place ICS with recorder / playback, Headsets have Bluetooth support for phones, Garmin MP3 jack (customizing), Automatic Speech Recognition

Garmin G1000H™ Avionics Flight Deck

STANDBY ATTITUDE MODULE (SAM)

The SAM is entirely self contained and provides attitude, altitude, airspeed and slip information in a small package measuring just two inches by five inches and weighing 1.6 lb (0.7257 kg). The SAM contains two led-backlit LCDs, one displaying attitude and the other airspeed and altitude. The SAM interfaces with the Garmin avionics suite and synchronizes data from ARINC 429 outputs. The unit is powered by a back-up battery that runs for at least 60 minutes if primary aircraft power is lost.

DISPLAYS

The Garmin G1000H™ flight deck presents critical flight information to the pilot at a glance for greater situational awareness, simplicity and safety. The pilot can easily and quickly select the information formats to display on the interchangeable Primary Flight Display (PFD) and Multi-Function Display (MFD). The Power Situation Indicator (PSI), located in the lower left-hand corner of the PFD provides a “one stop shop” for power indications and limits.

Primary Flight Display (PFD) Typical User Selected Formats: The PFD displays all major flight parameters in an intuitive, easy to scan layout: Attitude, Airspeed, HSI, Altitude and VSI. Primary and inset screens can be user-selected to display a variety of additional functions, including “Pathways in the Sky”, Flight Path Vector, Synthetic Vision [1], HTAWS [1], and Traffic Information System (TIS) [2].

- Notes: [1] Available as an optional kit.
 [2] The GTS 800 TAS (Traffic Advisory System) is available as an optional kit.



PFD Inset Map Display.



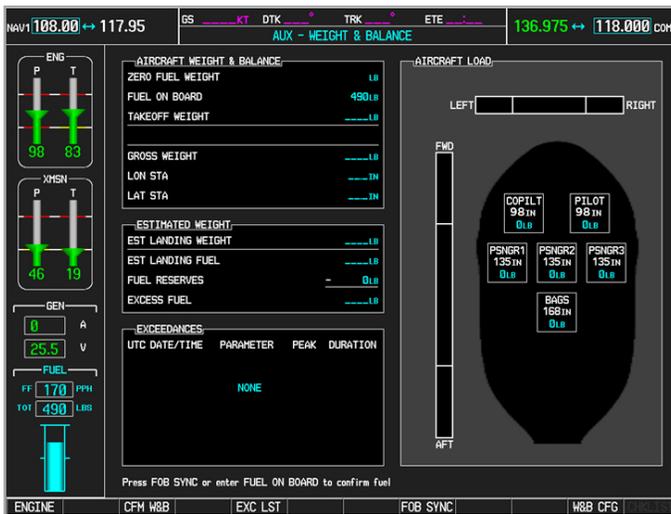
PFD 'Pathways in the Sky' Display.

Garmin G1000H™ Avionics Flight Deck

Multi-Function Display (MFD) Typical User Selected Formats: User-selectable MFD display options in the standard configuration G1000H™ Flight Deck include System Status, checklists, flight planning, maintenance pages, engine pages, NAV map, Traffic Information System (TIS), engine and transmission information, fuel status, and calculated range.

Optional features include satellite weather through an XM satellite datalink ^[1] (North America) or Iridium® ^[2] Voice/Data transceiver ^[3] (worldwide), and the Garmin GTS 800 Traffic Advisory System.

- Notes:
- [1] Subscription to XM Satellite Weather and/or Radio is the responsibility of the helicopter owner/operator.
 - [2] Iridium® is a registered trademark of Iridium Satellite LLC.
 - [3] Subscription to Iridium® Voice/Data service is the responsibility of the helicopter owner/operator.



MFD Weight and Balance Display.



MFD Moving Map Display.

Power Situation Indicator (PSI):

The PSI, shown in the dashed red circle, is a single indicator section of the PFD that provides the pilot quick information about power settings. The color-coded parameter display automatically highlights normal performance (green), near limits (yellow) or exceedances (red).



Power Situation Indicator.

Communication and Navigation

The standard configuration Garmin GIA 63H Integrated Avionics Unit includes a GPS/WAAS receiver, VHF COM Transceiver and VHF NAV and Glideslope receivers. It also maintains a prioritized queue of aural alerts for Aural Alert Generation.

AUDIO SYSTEM

The GMA 350H audio panel provides aircraft ICS, pilot and copilot volume control and dual stereo entertainment inputs. The COM interface supports up to three (3) transceivers and the NAV interface supports up to five (5) radios. The system can accommodate up to five (5) mono/stereo headsets (two (2) for pilot/copilot and three (3) for passengers), and provides ICS audio isolation modes for the pilot, copilot and passenger headset positions. The GMA 350H features two (2) entertainment inputs (MUSIC 1 and MUSIC 2). A 3.5 mm front panel mini-jack on the GMA 350H can be used as an entertainment input.

EXTENDED SQUITTER (ES) MODE S TRANSPONDER

The GTX 33H Extended Squitter (ES) Mode S Transponder functions are controlled by the PFD display, and support European Mode S mandates for Extended Squitter, Elementary Surveillance and Enhanced Surveillance. In addition, the GTX 33H ES provides Traffic Information (TIS) display of all Mode A and Mode C transponder equipped aircraft, and Automatic Dependent Surveillance-Broadcast (ADS-B) out capability. With ADS-B out capability, position velocity and heading information are automatically transmitted to other aircraft and ground stations to improve situational awareness and flight safety.

GARMIN SOFTWARE FEATURES

The Weight and Balance Multi-Function Display (MFD) page provides information about the helicopter weight and center of gravity. It uses pilot data entry for the crew, passengers, baggage loads, helicopter empty weight and the fuel load. It can synchronize with fuel quantity indication instead of relying on manual entry. Longitudinal and lateral aircraft CG are automatically calculated and displayed graphically with a digital readout. The Longitudinal CG slider indicator includes a cyan bar to show CG migration due to fuel burn.

The impending exceedances alert tone provides an aural alert to the pilot before encountering an engine exceedances. The aural alert tone is generated when any of the engine parameters are operating in a time-limited range. Profile and Path views are selectable and displayed on the Navigation Map MFD page. When the Profile View is enabled, it is displayed in a window below the Navigation Map. Altitude is shown along a vertical scale, with an aircraft icon positioned at the current altitude. Distance is represented horizontally along the bottom of the Profile View, and increases from left (present position) to right.

The Profile View is based on the current aircraft track (or heading if track is unavailable) and shows the highest known terrain or obstacles within a predetermined width from the present aircraft position to the end of the profile range.

The Profile Path displays the horizontal and lateral boundaries of the Profile View. The path is shown as a white rectangle on the Navigation Map Page and is only available when Profile View is enabled. White range markers both edges of the Profile Path rectangle match the range markers along the distance scale inside the Profile View display window whenever the profile range is at least 4 nm.

Optional GRA 5500 Radar Altimeter: Designed to work with Garmin flight displays, the GRA 55 conveniently places The Above Ground Level (AGL) readout right in front of the pilot. The GRA 55, when combined with the Garmin GTS 800 TAS and the Garmin GTS 33H ES transponder provides enhanced traffic situational awareness to the flight crew and other suitably equipped aircraft.

Communication and Navigation

AVIONICS UPGRADE OPTION

The Bell 505 optional avionics upgrade includes Helicopter Synthetic Vision Technology (HSVT™), Helicopter Terrain Avoidance Warning System (HTAWS) and Traffic Advisory System (TAS)

HSVT (Helicopter Synthetic Vision): Using sophisticated computer modeling to recreate a virtual topographic landscape from the system's terrain database, HSVT gives you a clear depiction of obstacles, traffic, ground and water features, airports and more - all shown in 3-D perspective on the primary flight display.

HTAWS (Helicopter Terrain Avoidance Warning System): HTAWS works in the background to monitor terrain and obstacles. It issues audio & visual alerts for instances requiring attention. Voice callouts enhance situational awareness while allowing you to keep eyes looking forward.

TAS (Traffic Advisory System): The TAS provides expanded traffic alerts through both active and passive surveillance capabilities. When installed, the optional GTS 800 TAS replaces the standard configuration Traffic Information System (TIS) using active interrogation of Mode S and Mode C transponders to provide traffic advisories to the pilot independent of the air traffic control system.

Seating and Interiors

CREW SEATING

Two individual ergonomically designed seats, each equipped with seat belt, double strap shoulder harness and inertia reel, are located in the cockpit. The color and upholstery material for the seats and interior trim of the cockpit match that which is selected for the cabin. Seats are mounted on in-line tracks to allow for easy entry and exit from the aircraft.

PASSENGER SEATS

Passenger seats are bulkhead mounted, forward facing, energy attenuating seats with incorporated fixed headrests and a four point restraint harness. The seats provide protection and restraint of occupants (passengers) in normal flight, emergency states and dynamic landing conditions. Standard equipped seats can be folded against the bulkhead for additional rear cabin storage and are mounted with quick disconnect fittings to easily remove the seats from the aircraft without the use of tools. Passenger seats can also be stowed in the baggage compartment. Leather passenger seats shown below are removable, non-foldable and available as optional equipment. Standard seating is provided in black fabric with optional leather provided in black, tan, and gray colors. Floor carpet is also available to match the selected seat colors.



Bell 505 Interior Layout, Two-Tone Premium Leather Gray seats shown.

Seating and Interiors

INTERIOR TRIM AND CABIN ACCESS

Clamshell cabin doors located on the copilot side of the aircraft open to a wide 55 inches (top right image), allowing easy ingress/egress for passengers or the ability to load and unload large objects (bottom right image) during utility missions. Quick disconnect seats (bottom left image, shown with one seat removed) allow the rear cabin to be converted for utility missions.



Bell 505 Interior and Cabin Access.

Seating and Interiors

BAGGAGE COMPARTMENT

The Bell 505 is equipped with one large rectangular baggage compartment that is accessible from the pilot side. Standard equipment includes an integrated light that automatically activates/deactivates when the baggage compartment door is opened or closed. Cargo of many different shapes and sizes can easily be stowed in the baggage bay including: several travel golf bags, up to four standard suitcases, or passenger seats from the main cabin.

A uniform rectangular design allows for maximum usage of the full storage space without wasted space. The Bell 505's flat floor cabin design and large rectangular baggage compartment lets the Bell 505 adapt to your changing mission needs. The baggage compartment has a large usable volume of 18 ft³ (0.51 m³). The baggage compartment can fit three standard travel golf bags, with some room to spare.

Mission Profiles

UTILITY

With a 2,000 lb (907 kg) capacity cargo hook, a highly configurable 22 ft² (2.0 m²) fully flat cabin floor area with integrated tie downs, a large 18 ft³ (0.514 m³) baggage compartment and superior crew visibility, the Bell 505 provides utility operators with the flexibility and performance they require to conduct their mission. The cargo hook features a load release button on the cyclic controls with a manual backup release to ensure the pilot can release external loads in flight. The cargo hook assembly also features fitting and disconnects that allow the whole assembly to be quickly removed from the aircraft.

CORPORATE

The Bell 505 is perfectly suited to accommodate everything from VIP transportation to corporate shuttle missions. Features such as a large cabin volume of 99 ft³ (2.80 m³), comfortable 16-inch wide premium leather seats and ample legroom/headroom combined with a smooth ride, superb range and the state of the art Garmin G1000H™ flight deck make Bell 505 an ideal choice for any business needs.

LAW ENFORCEMENT

With a highly configurable cabin, superb speed and range, and points for mounting external equipment, the Bell 505 delivers multi-mission capability and flexibility for parapublic operators. The Bell 505 displays its excellent capacity for law enforcement equipment with the ability to add features such as a searchlight, EO/IR Sensor, loudhailer, cockpit mounted folding monitor, tactical radio, additional audio panels, and much more. This combination of law enforcement equipment that can be tailored to your mission paired with a wide cabin, removable seats, fully flat floor design, and large baggage compartment gives officers the ability to meet any mission without sacrificing their comfort.



Bell 505 Utility Helicopter.



16-inch Wide, Premium Leather Seats.



Bell 505 Parapublic Helicopter.

Mission Profiles

TRAINING

With optional dual pilot controls, the Bell 505 is an excellent aircraft for training pilots to fly today's modern aircraft with integrated glass flight decks, FADEC controlled engines, and other advanced technologies. These modern technologies coupled with proven dynamic systems and a high inertia rotor system for excellent autorotation capabilities create the optimal platform for helicopter training.

HEMS

With optional dual pilot controls, the Bell 505's flat floor cabin, 55" clam shell door, and easy install EMS Kits make the 505 ideally suited for fast and efficient patient and medical personnel transport. Rear seat rails allow for a configurable equipment rack capable of handling a multitude of life saving medical equipment. The G1000H avionics suite provides added situational awareness for flight into high traffic and complex terrain rescue areas ensuring every rescue effort is a success.



Bell 505 Training Helicopter.

External Paint Schemes

For more color options, please visit config.bh.com or speak with a Sales Representative.



Bell 505 Standard Configuration

AIRFRAME

Hybrid composite / metallic structure with composite side panels and aft fuselage skins

Doors (three), one large hinged pilot and copilot door on LH and RH side, one hinged passenger door on the copilot side, copilot side doors open to unobstructed 55 inches (140 cm).

Landing gear, tubular skid type with replaceable skid shoes (painted black)

Lock for luggage compartment

Baggage Compartment: 18 ft³, 250 lb (0.51 m³, 113 kg) capacity with one composite door on pilot side

Tail boom, monocoque structure with vertical fin and fixed horizontal stabilizer

Tail Skid (tail rotor guard)

Rupture Resistant Fuel Tank: 84.85 gallons (321 liters)

Multiple paint schemes and color options available at config.bh.com

INTEGRATED AVIONICS SYSTEM with GARMIN G1000H™ SUITE

Two 10.4-inch (26.4 cm) high resolution display units, providing Primary Flight Display (PFD) and Multi-Function Display (MFD) functionalities

Integrated Avionics Unit, consisting of a 16-watt VHF communication transceiver with 8.33 kHz spacing, VHF navigation, WAAS GPS navigation, and glideslope receiver

One audio control panel with clearance recording and Automatic Speech Recognition (ASR) capability

One Air Data Attitude Heading Reference Unit (ADAHRS) with Outside Air Temperature (OAT) probe and Magnetometer Unit

One Mode S transponder with extended squitter, including Traffic Information Service (TIS), with ADS-B out capability

One engine and airframe interface unit

Integrated Engine Indication and Crew Alerting System (EICAS), including Power Situation Indicator (PSI) that provides an integrated display presentation of all critical engine parameters into a single indicator to present the power “margin” remaining

Fuel flow indication with range ring display capability

Flight Data Recording of standard aircraft and engine parameters

Electronic Standby Instrument System

ELECTRICAL

Auxiliary power outlet (28 VDC System)

Battery, 17 amp-hour Lithium Ion

External power and grounding receptacle

Starter-generator (165 ampere)

Solid state voltage regulator

Heated pitot tube

Static Ports, Unheated

LED lighting (interior/exterior)

Single LED landing light and dual LED taxi lights

Lighted baggage compartment

INTERIOR

5-place ICS allows audio access for all seats

Handholds for ingress/egress

Cargo tie-downs in cabin and baggage compartment

Cabin heater and defogger

LED cabin lighting and crew lighting

Decals and exit lighting/labels

5-place energy crash attenuating seats with 4-point shoulder harnesses

3 bulkhead mounted passenger seats, foldable, quick disconnect

Structural provisions for mounting of external hardware

Helmet hooks (Pilot & Copilot)

Fire extinguisher

First aid kit

MANUAL (not included in empty weight)

Garmin Pilot's Handbook (Available Electronically)

Garmin Cockpit Reference Guide (Available Electronically)

Operating manuals: Rotorcraft flight manual, Aircraft log book, Engine log book

Aircraft maintenance manuals*, Fault isolation manual, Wiring diagrams, Engine maintenance manual, Engine operating manual, Engine parts manual, Ground station software (aircraft data display)

POWERPLANT

Safran HE Arrius 2R gas turbo-shaft engine with dual channel FADEC and automatic backup

* Aircraft maintenance manuals are available on ePubs located here: <http://www.bellhelicopter.net>.

Bell 505 Standard Configuration

flight hour counting, stored in cockpit avionics system)

Automatic startup

Surge and flame-out protection

Interchangeable modules

Engine Inlet Barrier Filter

ROTORS AND CONTROLS

Main rotor, semi-rigid, two-bladed, teetering type with precone and underslung feathering axis. All metal blades that are moisture proof and epoxy encapsulated. Flap restraints.

High visibility main rotor blades

Tail rotor, semi-rigid, two-bladed, teetering type

Hydraulic boost system (pump and reservoir module)

Adjustable pedals

Mechanical flight control linkages throughout

Cyclic mounted Intercom / Transmit Switch

Pilot's cyclic grip has provisions for optional equipment control

TRANSMISSION DRIVE SYSTEM

Soft mounted LIVE pylon isolation system

Main transmission 2 stage 15.22:1 planetary reduction

Kaflex (non-lubricated) input drive shafts

Gearbox, tail rotor with 2.3:1 spiral bevel gear reduction

Freewheeling unit (between engine and main transmission)

Hydraulic pump (for cyclic and collective boost controls)

Oil Cooler

Oil pump constant pressure

Oil filter with replaceable type cartridge



Bell 505 Kits

Refer to notes for kit compatibility. Additional kits and STC items may be available for factory installation. Please consult sales or contract personnel regarding special needs prior to selection of final configuration.

OPTIONAL ACCESSORIES

Kit Description	Weight		Notes
	lb	kg	
AIRFRAME			
Sliding Windows (Pilot and Copilot)	1.2	0.5	
Fresh Air Inlet Snow Deflector	5	2	
Frahm Equipment (Requires Frahm Provisions)	25.5	11.6	
Frahm Provisions Only	1.2	0.5	
Air Conditioning	72.5	32.9	
Door Openers - Automatic – for Crew Doors	2.0	0.9	
Cowling Access Door (access to engine wash connection port)	0.4	0.2	
Foreign Certification (Decals Kit)	0	0	
Forward Hard Point	12.9	5.9	4
Aft Hard Point	6.1	2.8	
AVIONICS			
Avionics Upgrade (HTAWS, Synthetic Vision, TAS) - (Requires Avionics Shelf)	15.9	7.2	
Avionics Shelf	2.3	1.0	
Headsets - H10-13H (David Clark)	1.2	0.5	
Bose Headset Adapter (5 stations, wiring and jacks)	0.6	0.3	
Headsets - A20 (Bose) with Bluetooth	1.0	0.5	
Headsets - A20 (Bose) without Bluetooth	1.0	0.5	
Emergency Locator Transmitter (ACK Technologies Model E-04)	6.1	2.8	
Radar Altimeter (Garmin GRA-55) - (Requires Avionics Shelf)	6.5	2.9	
Second VHF Communication (Garmin GTR 225B)	5.4	2.5	
EQUIPMENT			
Cargo Hook Equipment (2,000 lb / 907 kg) (Requires Cargo Hook Provisions)	8.1	3.7	
Cargo Hook Provisions	4.4	2	
Cargo Hook Mirrors (Right and Left sides available)	4.8	2.2	
Cargo Hook Weighing System	2.9	1.3	
Dual Pilot Controls	10.6	4.8	
Rotor Brake	14.2	6.4	
INTERIOR			
Color Coordinated Carpet	4.6	2.1	
Premium Leather Seats (16" width), 3 passenger	29.6	13.4	
Floor Protectors	TBD	TBD	

OPTIONAL ACCESSORIES

Kit Description	Weight		Notes
	lb	kg	
OTHER			
No Exterior Paint	-14.6	-6.6	
Landing Gear Painted to Match Aircraft Color	0	0	
Mechanical Ground Handling Wheels	0	0	
Ground Handling Carrier Bracket (Qty 2)	0	0	3
VENDOR STC			
Wire Strike Protection System (WSPS)	12.9	5.9	
Operator Accessory Package (not installed)	n/a	n/a	2
High Skid Gear and Crew Step	5.7	2.6	5
Heavy Duty Skid Shoes - Full Length Trainer Shoe	10	4.5	
Emergency Float Kit	129	58.5	
Bear Paws (Alpine Aerotech)	18	8.2	
Baggage Floor Protector	7.2	3.3	
Pilot Floor Protectors	1.7	8	
Headliner	16.2	7.3	6
Co-Pilot Floor Protectors	1.7	8	
Passenger Floor Protectors without Carpet	10.8	4.9	
Passenger Floor Protectors with Carpet	9.3	4.2	
NightScanner	10	4.5	
Tinted Windows	0	0	

Notes: For commonality, notes shown below are identical in Product Specification and Price List.

- 1 Mandatory customer kit included in the base weight of the aircraft.
- 2 Operator Accessory Package includes: Pitot Tube Cover, Main Rotor Tie Down, Tail Rotor Tie Down, IBF Cover Assembly, Exhaust Cover Assembly.
- 3 This Adapter fits standard 206L-series "Brackett" Ground Handling Wheels to the JRX skid tube. Does not work on 206B wheels
- 4 Provides external hard-points to mount items such as cameras and searchlights.
- 5 High Skid Gear provides an additional 6.5 inches (16.5 cm) of height versus standard gear.
- 6 Available in Black, Beige, Black, and Tan. Center and Back with Hydrographic center

Helicopter Performance Charts

IGE and OGE hover, and service ceiling performance chart data based on the following conditions:

- Safran HE Arrius 2R engine
- Barrier filter installed
- Heater off
- No wind

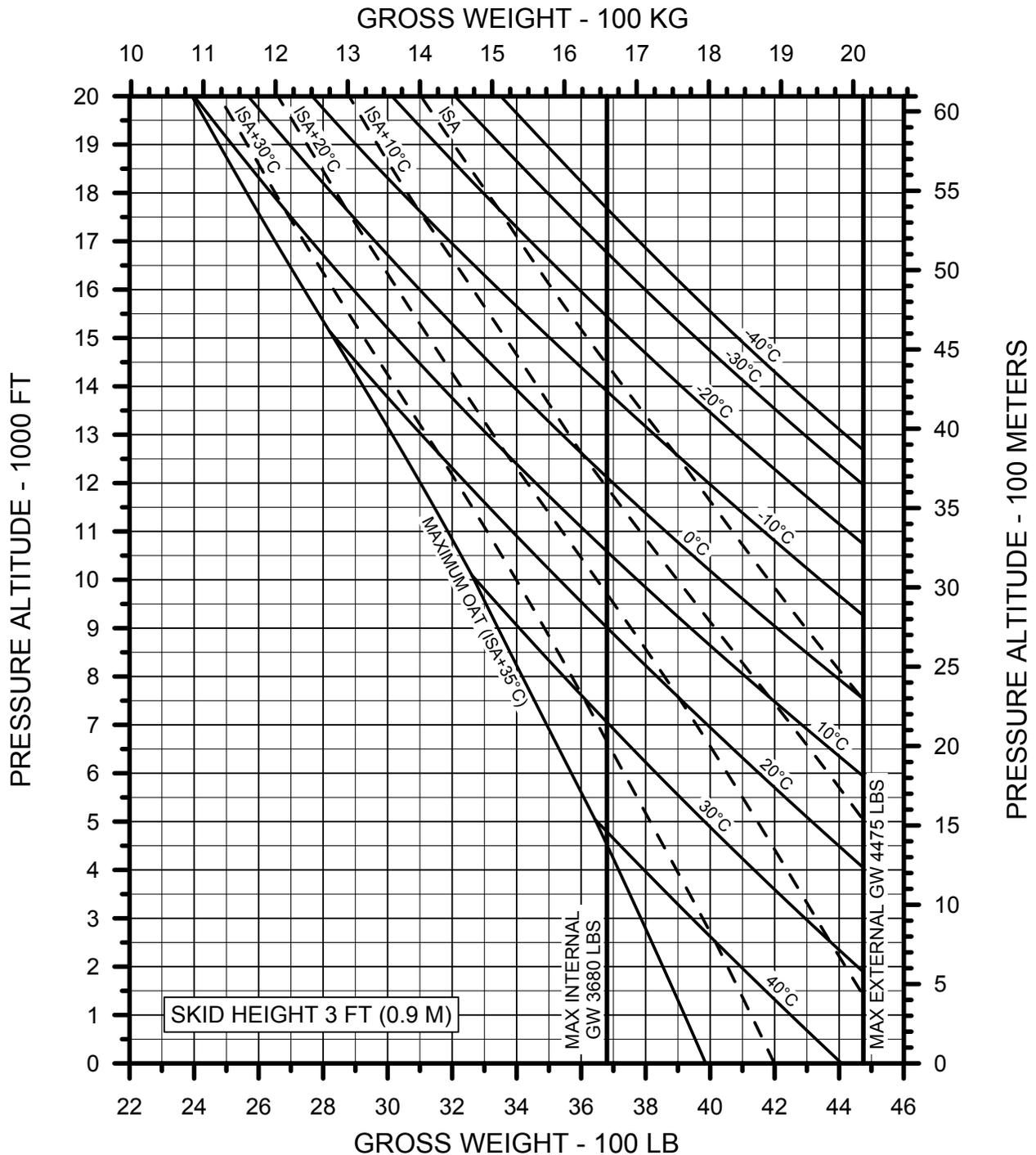


Helicopter Performance Charts

IGE HOVER CEILING

Conditions:

- Safran HE Arrius 2R engine at takeoff power
- Barrier filter installed
- Heater off, No wind

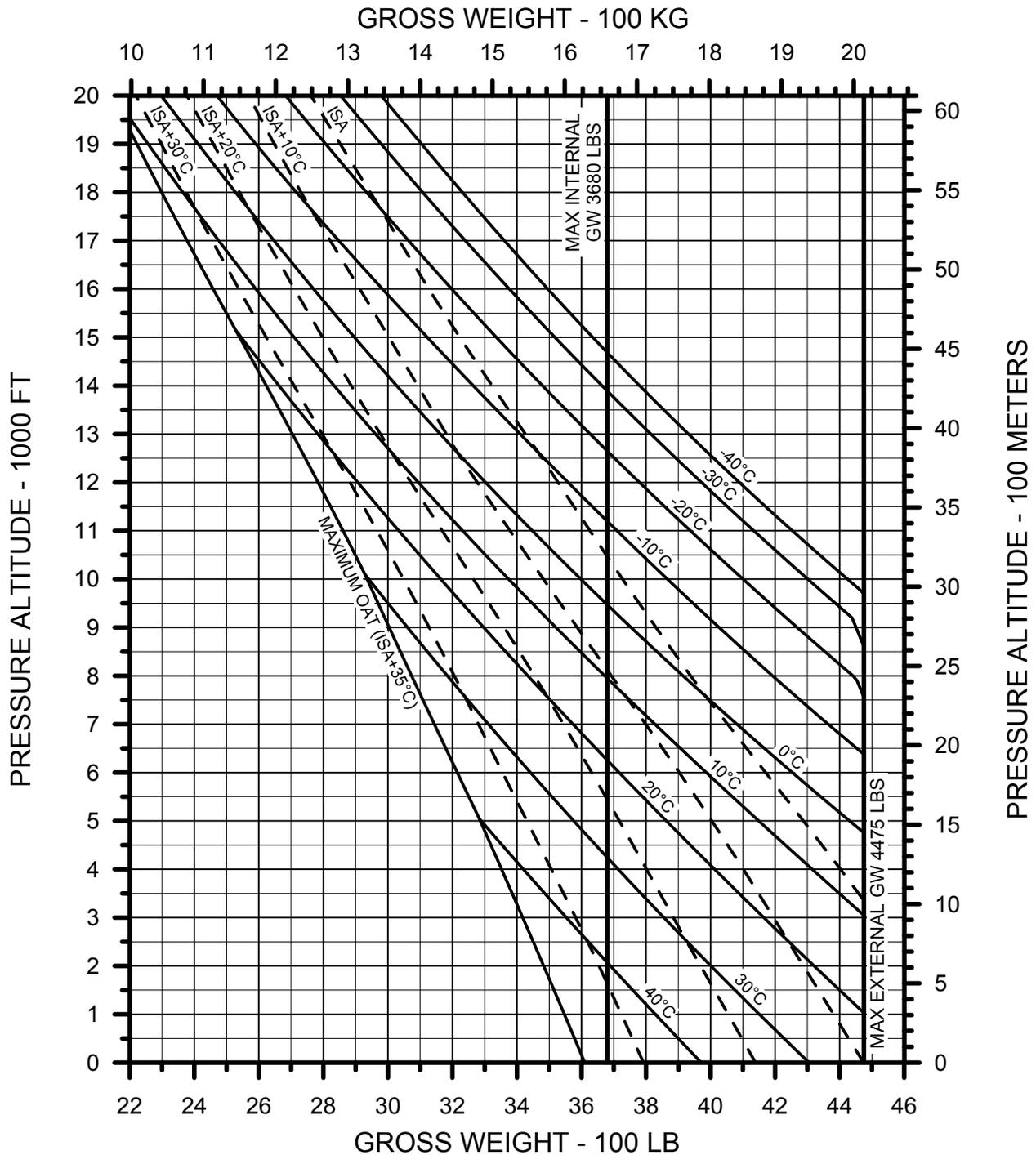


Helicopter Performance Charts

OGE HOVER CEILING

Conditions:

- Safran HE Arrius 2R engine at takeoff power
- Barrier filter installed
- Heater off, No wind

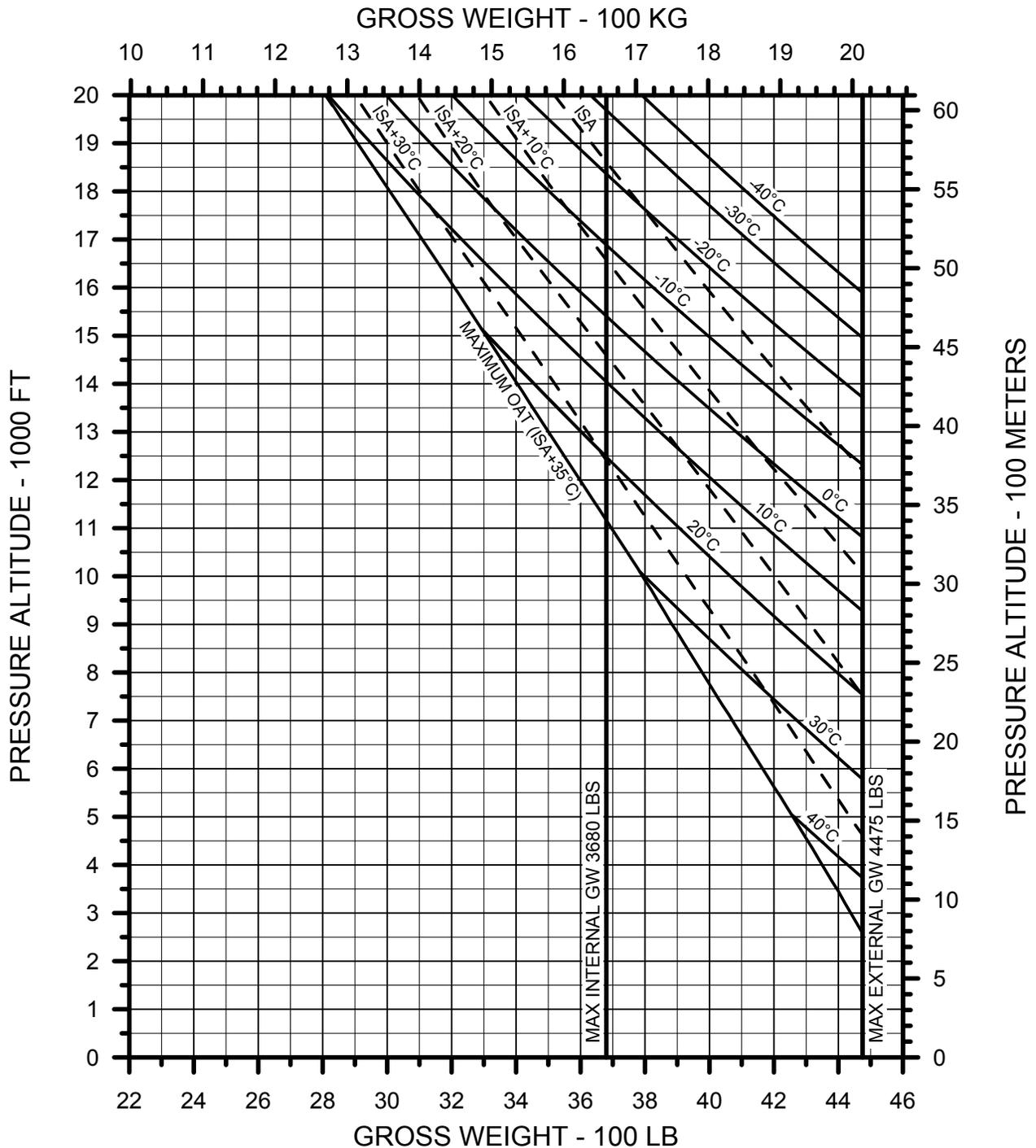


Helicopter Performance Charts

SERVICE CEILING

Conditions:

- Safran HE Arrius 2R engine at MCP power
- Barrier filter installed
- Heater off, No wind



Fuel Flow vs. Airspeed

Fuel Flow vs Airspeed chart data based on the following conditions:

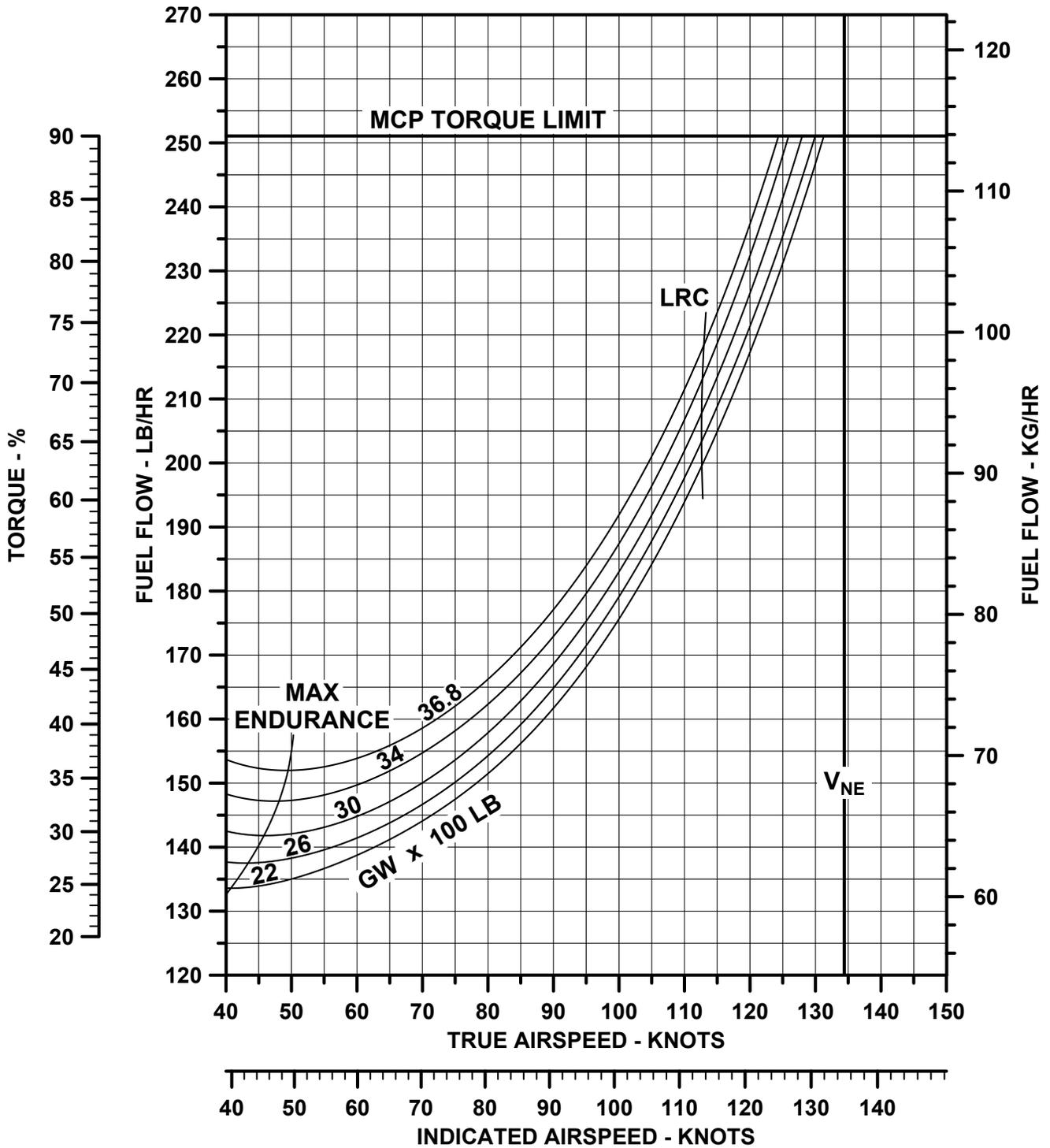
- ISA & ISA+20°C
- Safran HE Arrius 2R engine
- Inlet Barrier Filter installed
- Standard skid gear
- Clean configuration (no external kits)
- Zero wind

Notes: The best allowable Cruise Speed is either Long Range Cruise Speed (LRC), or when speed is limited by Maximum Continuous Cruise Power (MCP) or VNE , the maximum speed permitted.



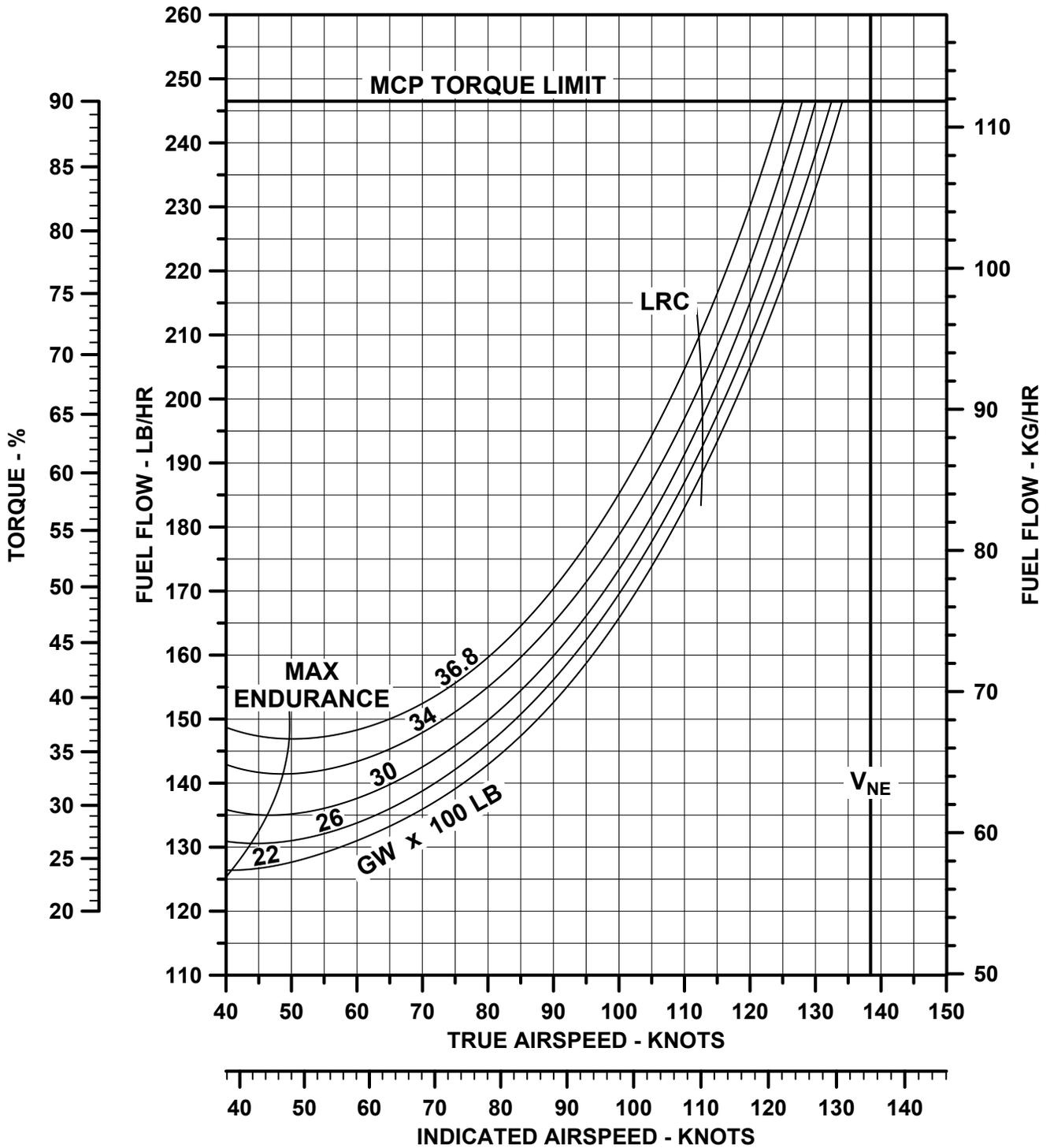
Fuel Flow vs. Airspeed

PRESSURE ALTITUDE = SEA LEVEL, OAT = 15°C (ISA)



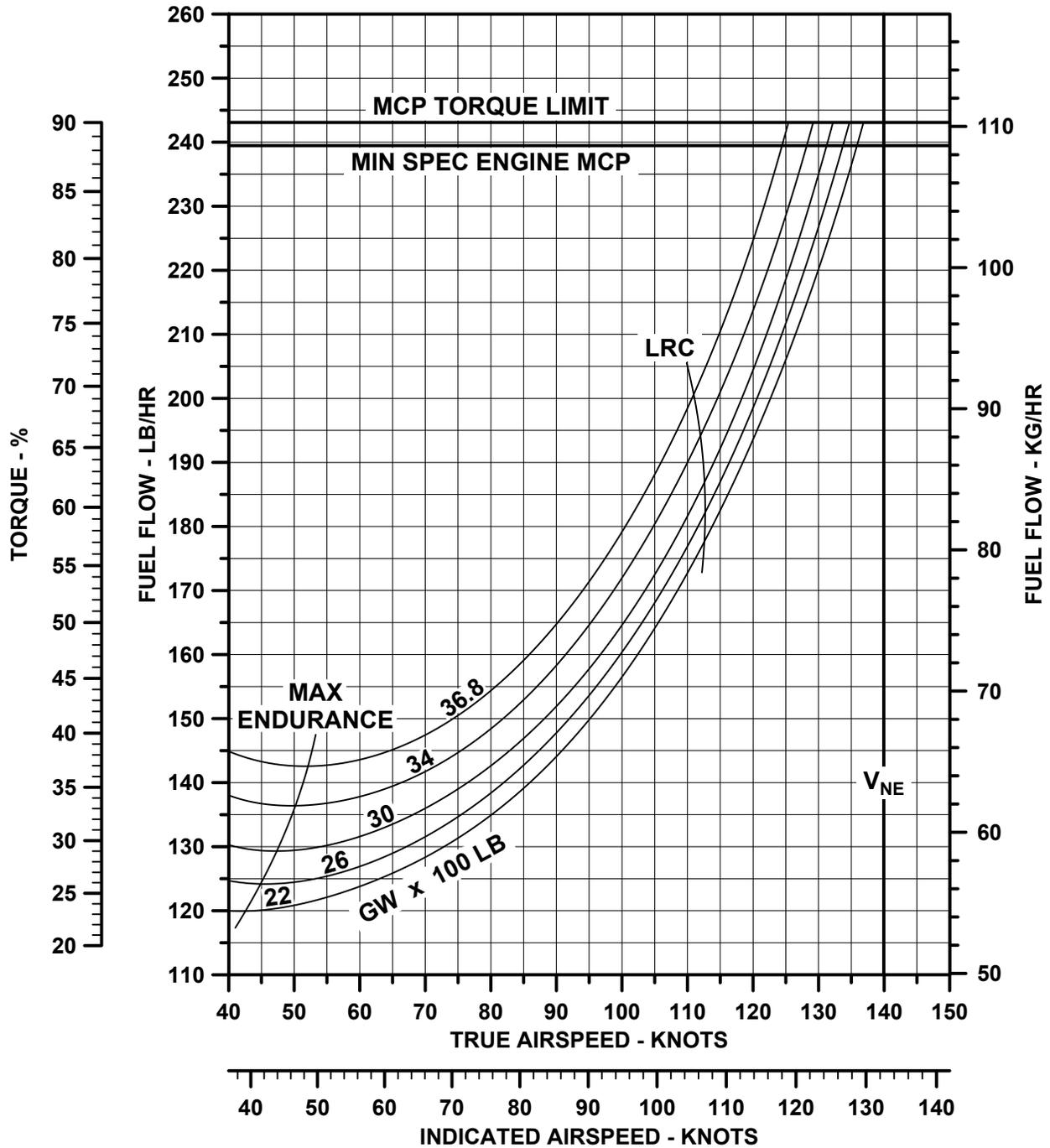
Fuel Flow vs. Airspeed

PRESSURE ALTITUDE = 2,000 FT, OAT = 11°C (ISA)



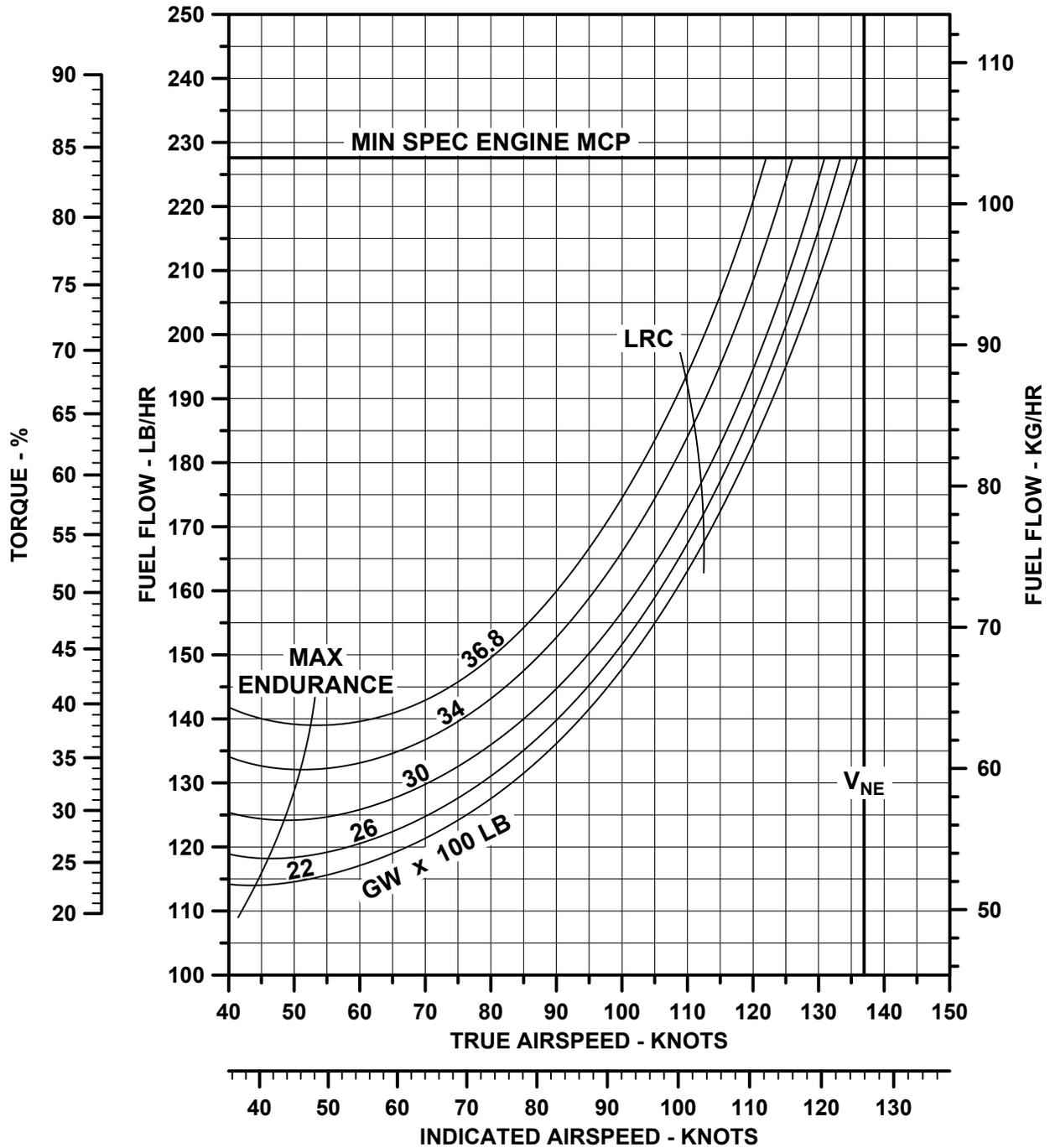
Fuel Flow vs. Airspeed

PRESSURE ALTITUDE = 4,000 FT, OAT = 7 °C (ISA)



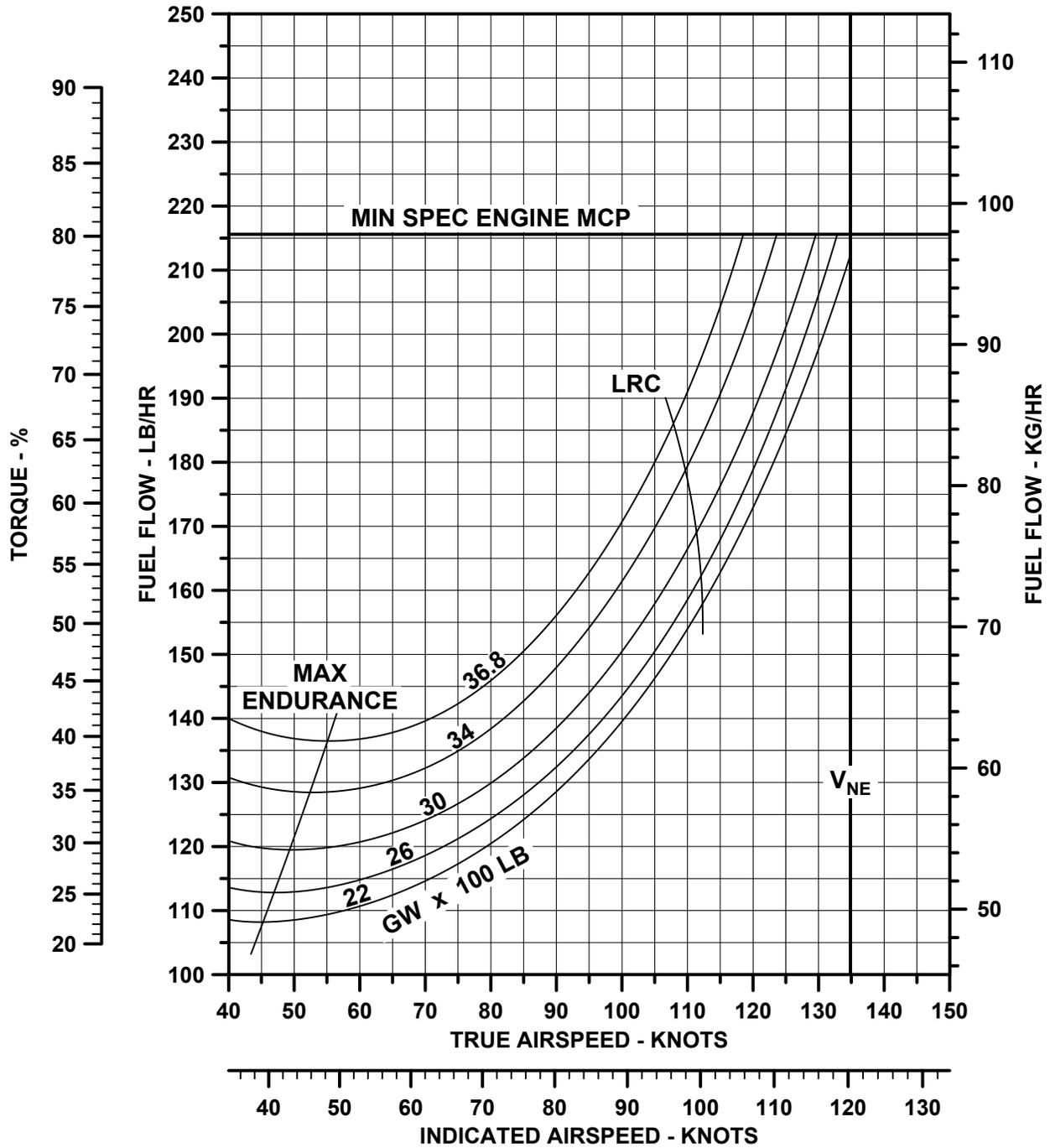
Fuel Flow vs. Airspeed

PRESSURE ALTITUDE = 6,000 FT, OAT = 3 °C (ISA)



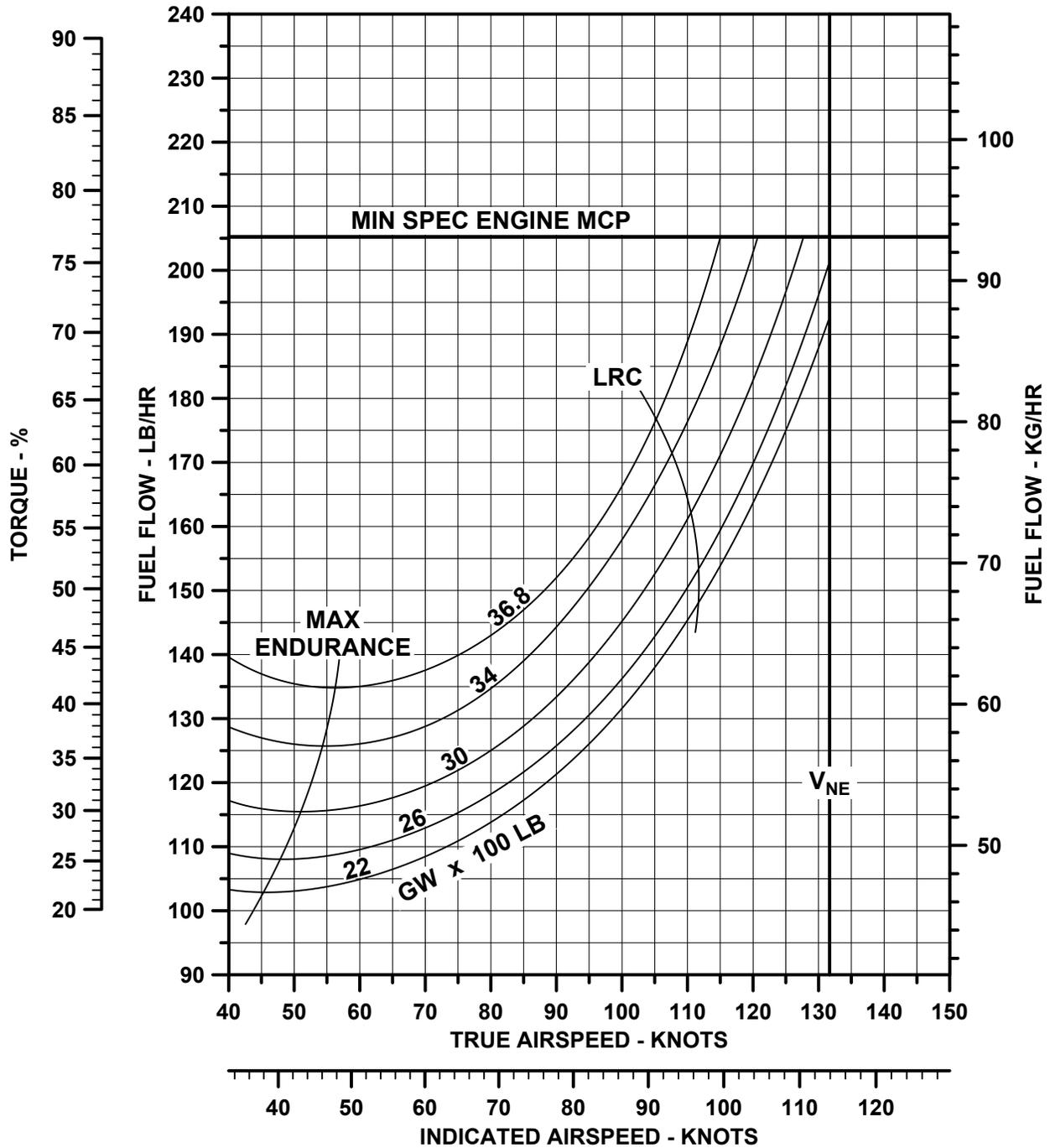
Fuel Flow vs. Airspeed

PRESSURE ALTITUDE = 8,000 FT, OAT = -1 °C (ISA)



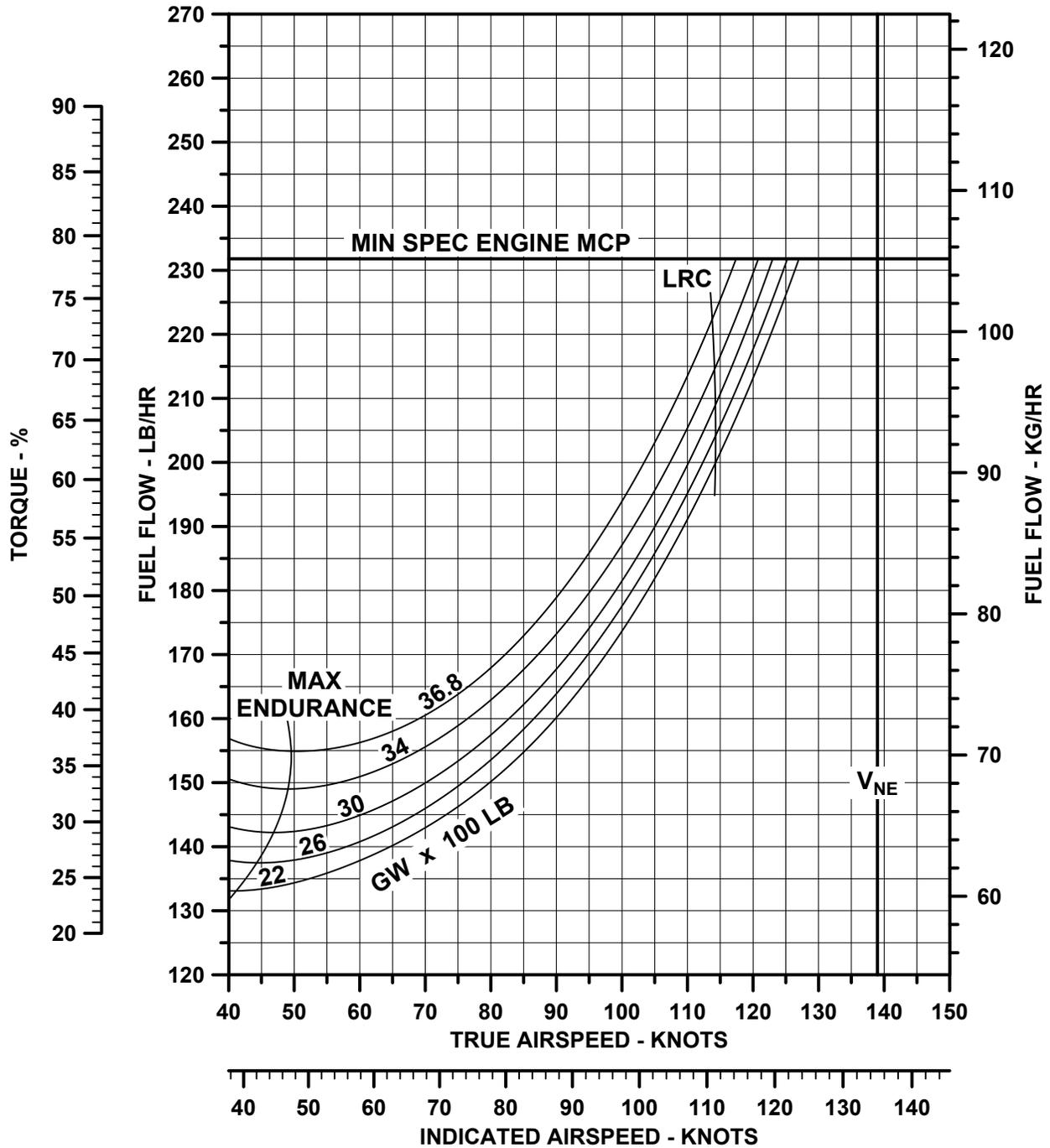
Fuel Flow vs. Airspeed

PRESSURE ALTITUDE = 10,000 FT, OAT = -5 °C (ISA)



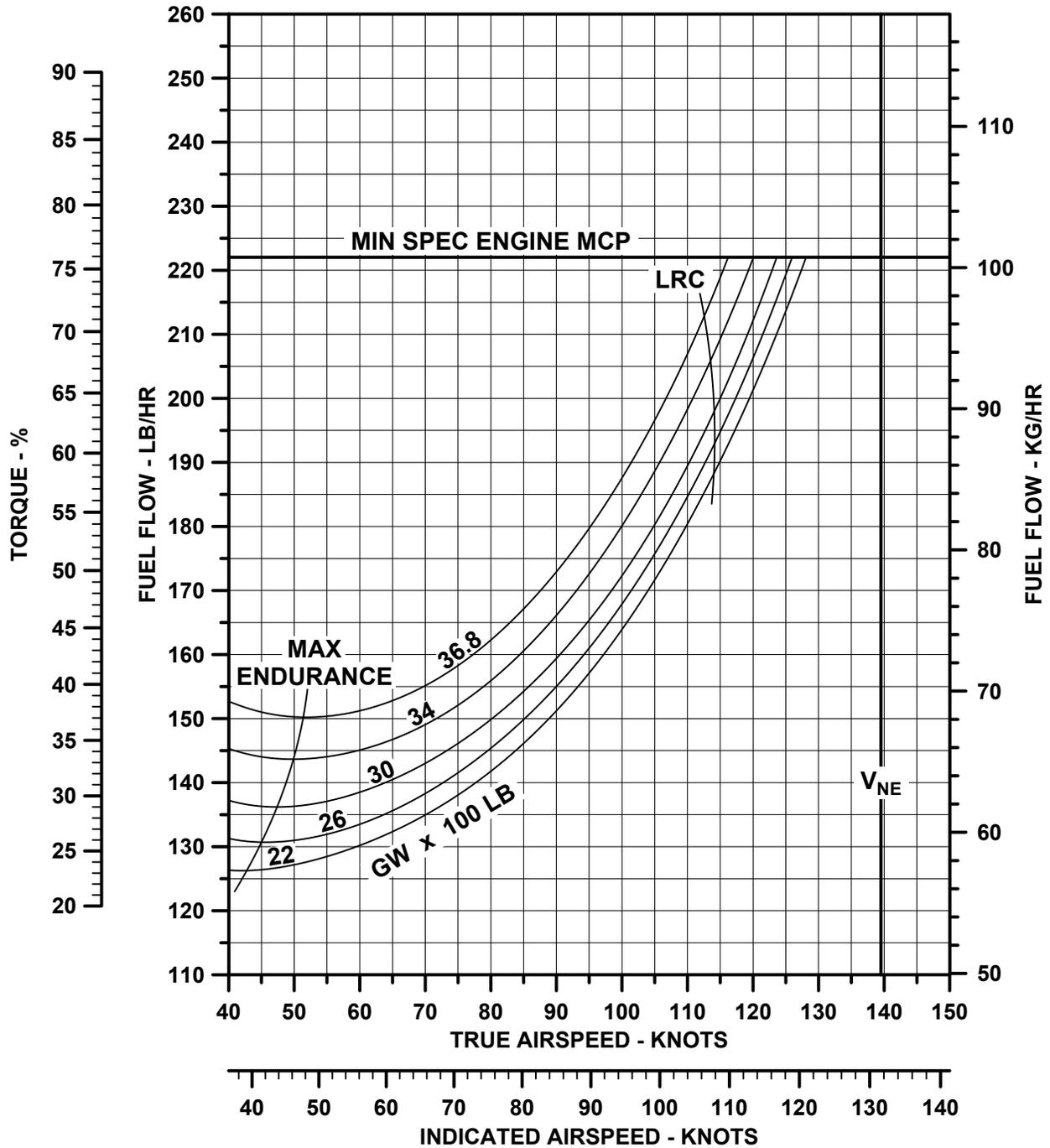
Fuel Flow vs. Airspeed

PRESSURE ALTITUDE = SEA LEVEL, OAT = 35 °C (ISA + 20)



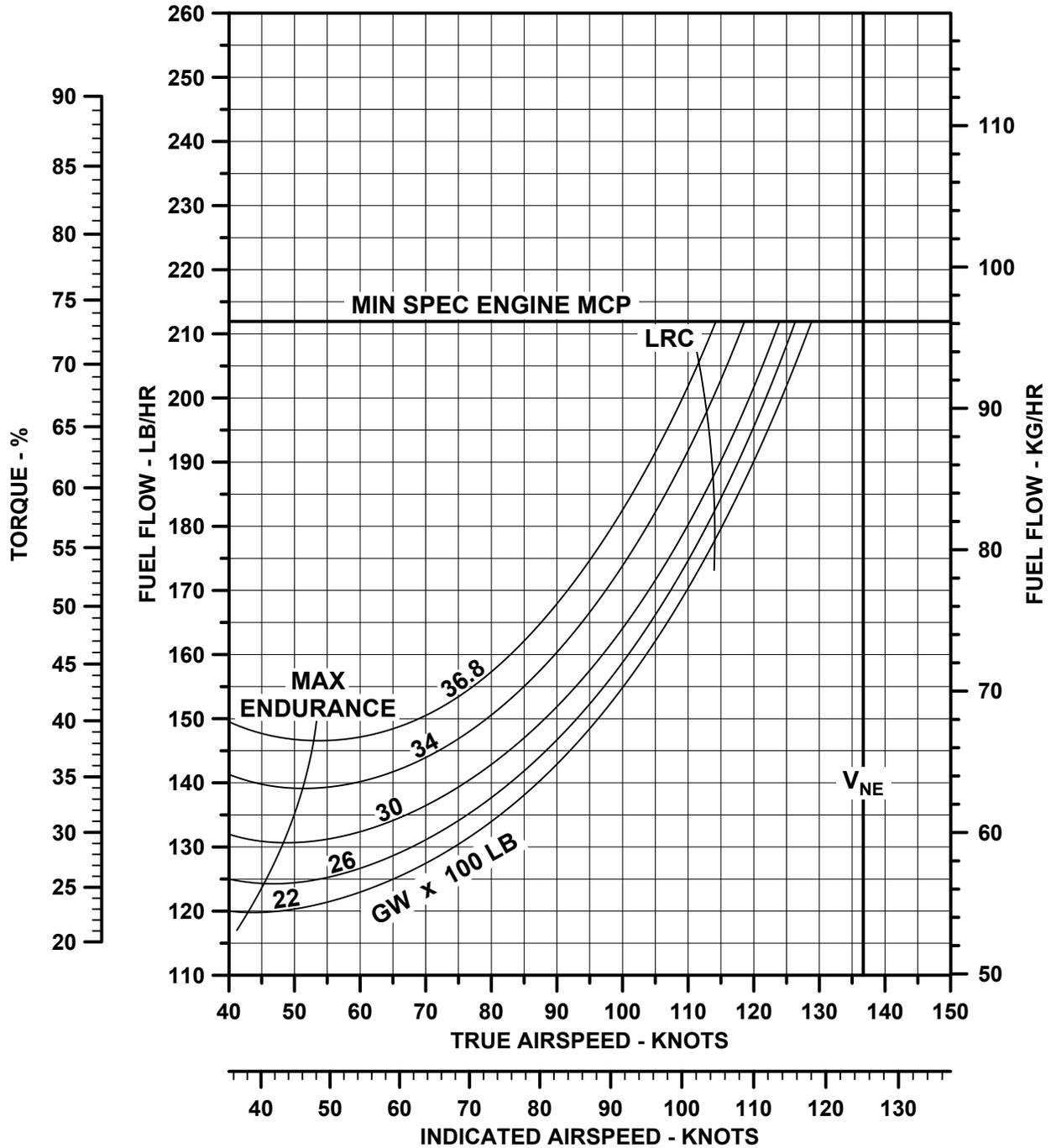
Fuel Flow vs. Airspeed

PRESSURE ALTITUDE = 2,000 FT, OAT = 31 °C (ISA + 20)



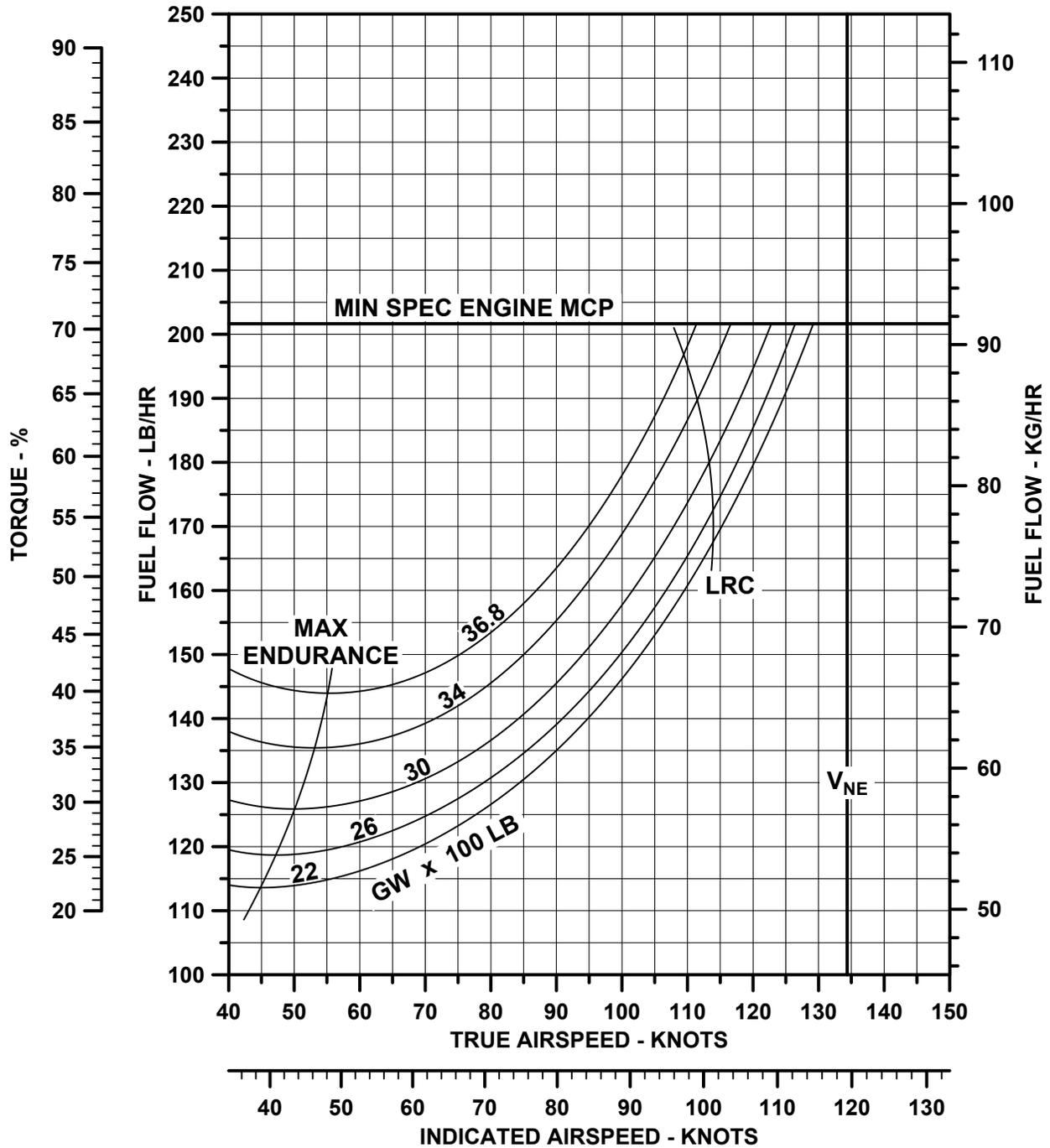
Fuel Flow vs. Airspeed

PRESSURE ALTITUDE = 4,000 FT, OAT = 27 °C (ISA + 20)



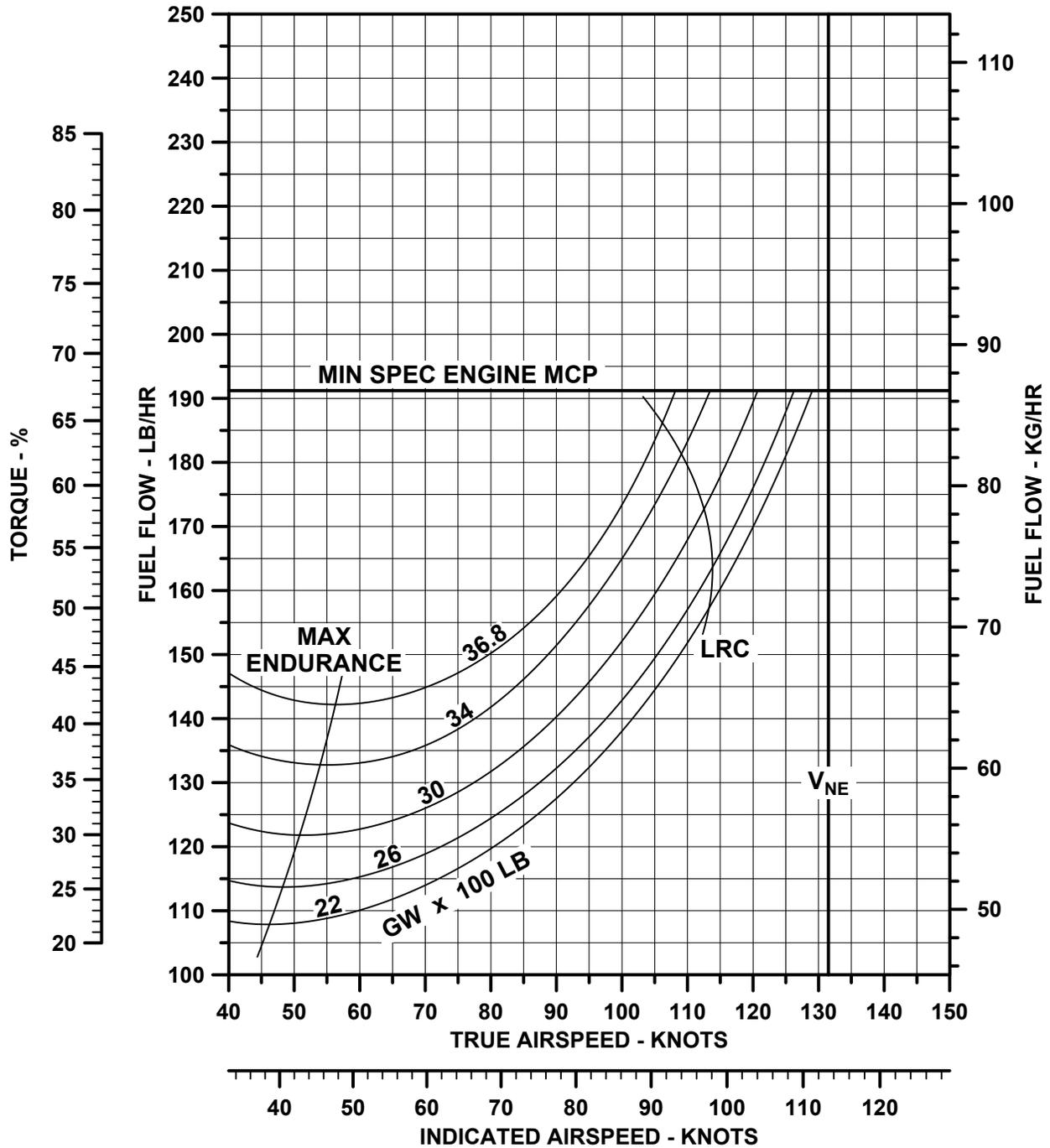
Fuel Flow vs. Airspeed

PRESSURE ALTITUDE = 6,000 FT, OAT = 23 °C (ISA + 20)



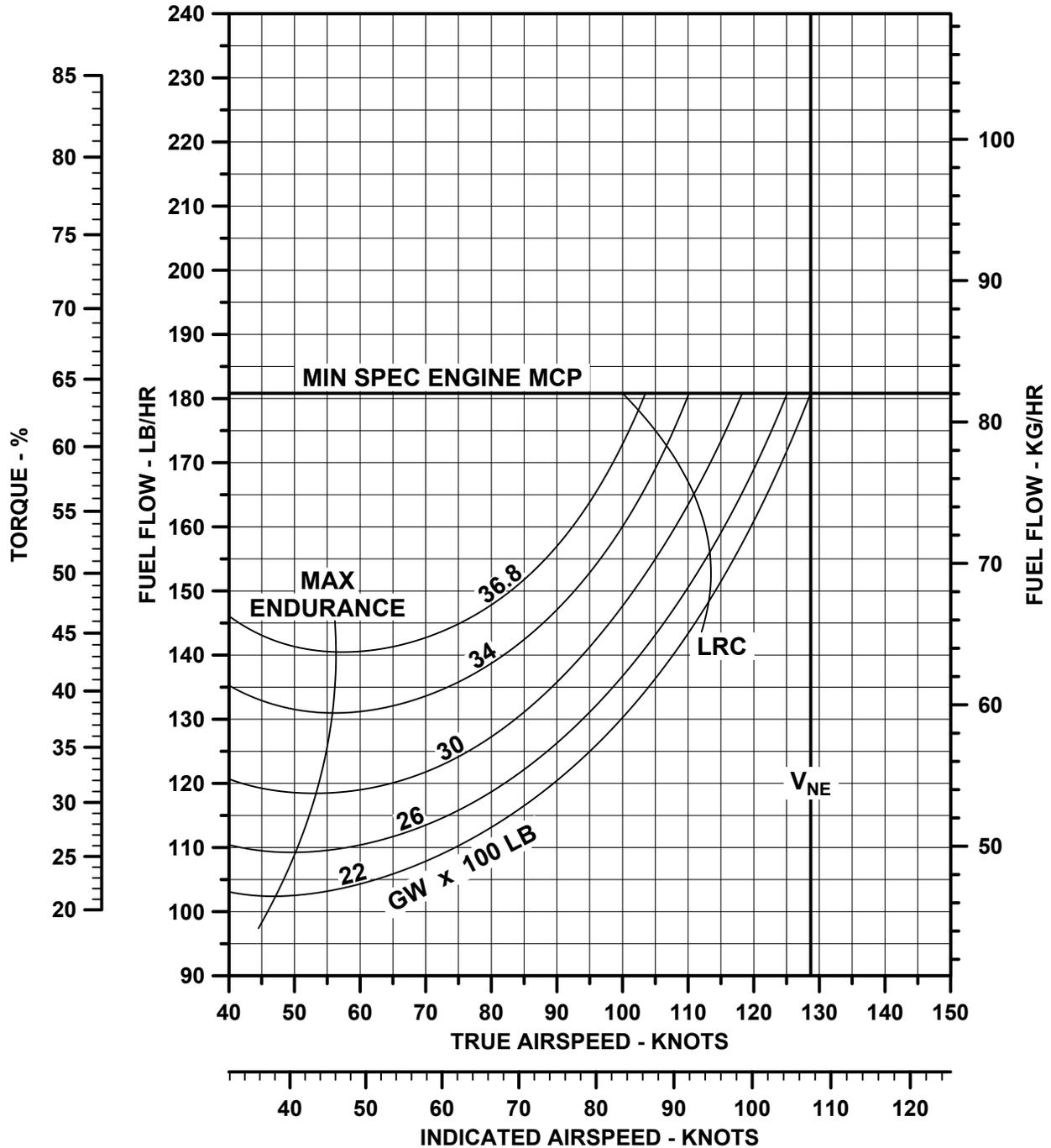
Fuel Flow vs. Airspeed

PRESSURE ALTITUDE = 8,000 FT, OAT = 19 °C (ISA + 20)



Fuel Flow vs. Airspeed

PRESSURE ALTITUDE = 10,000 FT, OAT = 15 °C (ISA + 20)



Cost of Operations

INTRODUCTION

Bell Textron Inc. has worked diligently with its very own operators and service facilities to provide a detailed and accurate cost of operations for production helicopters. Our Product Support Organization acquires cost data from an assorted group of operators ranging from large to small; sub-polar, subtropical; inland to coastal; corporate, and charter. The purpose of this information is to analyze and generate sample data for each production model which are averages of the field experiences to ensure we monitor actual costs, enable annual updates, and to maintain aircraft currency.

The following discussion is provided to review the variables involved in the helicopter’s direct and indirect cost of operations as well as its cost of ownership.

- Fuel, Lubricants
- Basic Airframe Maintenance
- Powerplant Maintenance

The indirect costs are not directly dependent upon the number of hours flown and include:

- Insurance
- Facilities (hangar, workshop, etc.)
- Crew Compensation
- Financial Factors (depreciation, investment tax credit, financing costs, etc.)

Sample direct operating cost data is available for each current production model. Detailed estimates for total costs relating to specific operations are available through the BHTI regional marketing manager or corporate office using input data supplied by customer/prospect.

DIRECT COSTS

Fuel, Lubricants	A typical average value of fuel and lubricant costs is included in the sample data provided for each model. Fuel consumption depends upon speed, temperature, externally-mounted accessories, sling loads, etc. A band of approximately 10% value will cover these factors for normal operations. Fuel pricing varies considerably based on where the fuel is purchased geographically and whether it is purchased retail or in bulk. The sample cases use average retail purchase prices prevalent at the time of the sample data are prepared.
Basic Airframe Maintenance	<p>Airframe maintenance is divided into four categories:</p> <ul style="list-style-type: none"> • Progressive Inspections • Overhauls • Replacement of Retirement Parts • Unscheduled <p><u>Progressive inspections</u> include proper inspection tasks and part requirements which are listed in the Maintenance Manual for each model. Man hours for progressive inspections can vary from the sample value provided because of differences in personal experience, tools, part availability, facilities, and environmental effects such as extremes in working temperatures. Man hour costs/hour is also variable among the Authorized Service Centers as a result of differences in local costs, overhead expenses, and volume of work. The sample value is an average of costs per hour at Authorized Service Centers at the time of publication.</p>

Cost of Operations

DIRECT COSTS

<p>Basic Airframe Maintenance (continued)</p>	<p><u>Overhauls</u> include removal, disassembly, inspection, parts replacement, reassembly and reinstallation of certain components/assemblies at the periods stated in the BHTI Maintenance Manual. Overhaul man hour and parts requirements are subject to considerable variation depending upon the helicopter's operations and environments. The sample data reflects average values.</p> <p><u>Retirement parts</u> are those of which have reached their respected flight life expectancy and are subjected to disposal after an operating time stated within the Maintenance Manual. These are normally components of the rotors/control systems which are subject to oscillatory loads and are designed and tested for use over a finite number of flight hours rather than on their condition. The replacement at the required intervals requires some labor which is included in the man hour data in the sample</p> <p><u>Unscheduled maintenance</u> encompasses labor and parts replacement for major maintenance not covered under the formal Maintenance Manual requirements for inspections and overhauls. It also includes those additional maintenance requirements imposed by the manufacturer through issue of Service Bulletins.</p> <p>The sample data for periodic inspections provide for some minor unscheduled maintenance tasks resulting from the inspection.</p>
<p>Powerplant Maintenance</p>	<p>The power plant engine requires periodic inspection and overhauls. The overhaul periods are based on the number of operating hours or on the number of cycles, whichever is the first limit to be attained. Start cycles are a factor because thermal cycles are important in the design of the turbine engine's rotating components. Overhauls are performed by the engine manufacturer and/or at authorized facilities. Power plant overhaul can be performed for the engine as a unit, or in some cases for individual modules. (Modules can be gearbox, compressor, turbine, for example.) Each module can have its own overhaul period. Modular overhaul can be cost-effective for some operations and its use should be evaluated. Engine or module exchanges can be made in lieu of overhaul. For details, contact the engine manufacturer or his authorized distributors/service centers. The sample costs are based on an average exchange. The power plant may also require unscheduled maintenance (unscheduled removals for repair, parts replacement).</p>

Cost of Operations

INDIRECT COSTS

Insurance	Insurance rates are based on a number of factors including claim experience, type of operations, and crew qualifications. Rates can be obtained from insurance agent/broker.
Facilities	Facilities can include hangar, workshop, parts storage area, tools, ground support equipment and administrative area as appropriate to the specific operation.
Crew Compensation	The number of aircrew personnel depends on the individual operation; i. e., whether the normal crew consists of one or two pilots, hours per day flown, backup requirements for illness, vacation, etc. Bell regional marketing managers can advise typical local costs for estimation purposes.
Financial Factors	Funding a helicopter purchase can be accomplished in a variety of ways, including cash, short term note, long term note, partnership, etc. For investment accounting, several depreciation methods also exist; straight line, double declining, sum of the years digits, etc. Value of resale is a significant factor.
Miscellaneous Factors	Staff expenses (other than aircrew and direct maintenance personnel), utilities, office expenses, etc.

Cost of Operations

OWNERSHIP ANALYSIS PROGRAM

Bell Textron Inc. uses the most recent published edition of the Life Cycle Cost computer program provided by Conklin & de Decker Associates, Inc. to determine ownership costs for an operator's planned period of utilization for the aircraft. Conklin's Rotorcraft Analysis Office may be contacted by Phone at (817) 277-6403 or by Fax at (817) 277-6402.

Bell's regional marketing managers or corporate office personnel will be able to assist in preparing an ownership analysis which is customized for our customer's specific individual conditions and needs.

DIRECT COST OF OPERATIONS (U.S. DOLLARS PER FLIGHT HOUR)

	Parts	Labor ^[1]	Total
AIRFRAME DIRECT MAINTENANCE			
Scheduled Inspections ^[2]	\$0.33	\$19.08	\$19.41
Scheduled Retirements ^[3]	\$123.36	\$8.68	\$132.04
Scheduled Overhauls ^[4]	\$19.87	\$8.85	\$28.72
Provision for Unscheduled Maintenance and Service Bulletins on above Components	\$9.81	\$1.91	\$11.73
On-condition Maintenance of Other Airframe Components	\$15.46	\$6.26	\$21.72
Subtotal	\$168.83	\$44.79	\$213.62
POWERPLANT - Safran HE Arrius 2R (Quantity 1)			
Mfg. Estimate of Engine Cost per Hour			\$96.00
BHT Estimate of Additional Line Maintenance			\$1.03
		Subtotal	\$97.03
		Total DMC	\$310.65
FUEL AND LUBRICANTS			
Fuel ^[5]			\$129.20
Lubricants 1%			\$1.29
		Subtotal	\$130.49
		Grand Total with Fuel	\$441.14

- Notes:
- [1] Labor rate figured at \$95.00 per hour (0.45 mx man hour / flight hour).
 - [2] Based on 431 flight hours / year.
 - [3] Based on 100% Life.
 - [4] Based on 100% TBO.
 - [5] Calculated at Fuel Flow Rate of 32.30 U.S. GPH at Fuel Cost of \$4.00 per gallon.

Other assumptions: Basic VFR helicopter with no optional equipment installed
(Add 5-10% for optional equipment using operator experience);
Mature helicopter (no warranty considerations);
Bell list price for spare parts.

Component Overhaul

COMPONENT OVERHAUL INTERVALS

Component	Hours	Component	Hours	Component	Hours
M/R Hub	2,400	Freewheeling Assy	3,000	Tail Rotor Hub	2,500
Mast Assy	3,000	Swashplate & Support	4,800	Main Driveshaft	2,000
Transmission	4,500	Tail Rotor Gearbox	6,000	Starter Generator	1,000

Note: Analysis of Lead-the-Fleet performance data continues to permit extension of TBOs beyond 2,500 hours for drive train components.

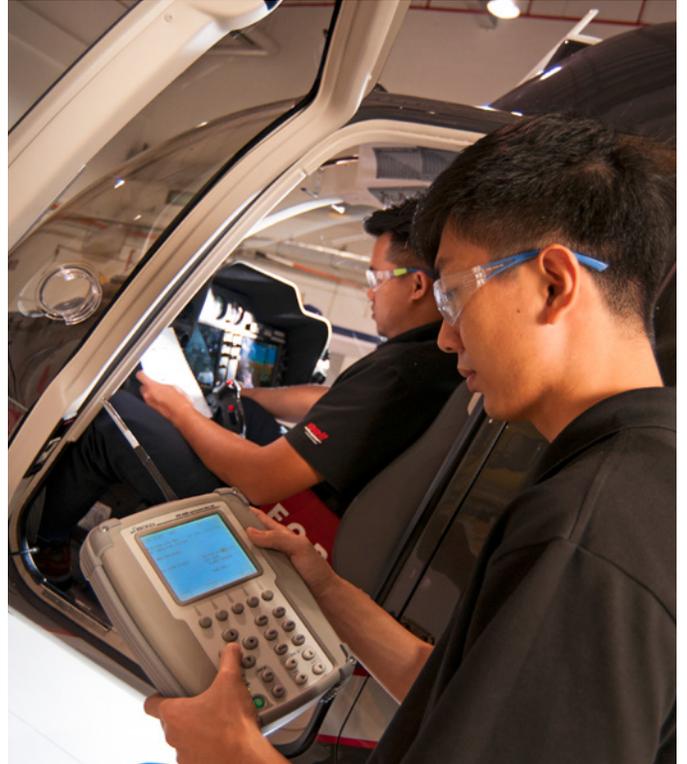
LIMITED LIFE COMPONENTS

Part Number	Component	Life in Ft Hours	Life in SRIN	Life in Months	Qty Per Aircraft
AIRFRAME					
SLS-030-056-015	Truss	3,000			1
SLS-030-600-023	Tailboom Assy (1)	14,000			1
SLS-030-820-005	Fwd Crosstube Assy	14,667	22,000		1
SLS-030-830-003	Aft Crosstube Assy	4,333	6,500		1
SLS-030-810-005	Skid Tube Assy	4,333	6,500		1
SLS-030-302-101	Vertical Beam, Left	1,000			1
SLS-030-302-102	Vertical Beam, Right	1,000			1
SLS-010-200-101	LIVE Mount Assy, Left	3,000			1
SLS-010-200-102	LIVE Mount Assy, Right	3,000			1
MAIN ROTOR HUB AND BLADES					
206-011-120-105	Trunnion (2)	16,000	24,000		1
206-011-150-105	Strap Retention Fitting	2,400			2
206-011-125-001	Strap Pin	1,200			2
206-011-132-113A	Grip	4,800			2
206-310-004-103	Tension-Torsion Strap	1,200		36	2
206-011-260-101	Latch Bolt	1,200			2
206-015-001-119	Main Rotor Blade	4,000			2
MAIN ROTOR MAST					
206-040-535-109	Main Rotor Mast	5,000	44,000		1
SWASHPLATE AND SUPPORT					
206-010-446-107	Collective Idler Link	14,400			1
206-010-445-113	Swashplate Support	14,400			1
206-010-454-113	Collective Sleeve	14,400			1
206-010-447-109	Collective Lever	14,400			1
TAIL ROTOR HUB AND BLADES					
206-011-819-109	Tail Rotor Yoke	5,000			1
206-016-201-135	Tail Rotor Blade	2,500			2
TAIL ROTOR GEARBOX					
206-040-410-101	Duplex Bearing	3,000			1

Note: Prices and hours are subject to change without notice. These data are provided for illustration purposes. Consult maintenance documents and BHTI spare parts pricing for current, official information.

Customer Support and Services

At Bell, we understand that our responsibility to our customers extends far beyond the aircraft sale. We are committed to providing the resources necessary to ensure the safe and reliable operation of our products, and we will be with you at every step of your aircraft's lifecycle. Consistently voted the #1 Customer Support & Services organization in the industry, Bell offers a wide range of products and services to support your mission requirements.



SUPPORT AND SERVICE OFFERINGS

2

Straightforward Customer Advantage Plans (CAP) covering basic aircraft configuration with optional coverage for non-standard kits

8

Bell service centers around the world with wide ranging maintenance, repair and overhaul capabilities

80+

Bell Training Academy employees with extensive experience, offering the most advanced pilot and maintenance courses

4,000

Parts offered through the Aeronautical Accessories brand

and

1,200

Unique Supplemental Type Certificates (STCs), all of which comply with FAA regulations and meet rigorous internal quality standards

100+

Bell authorized Customer Service Facilities (CSFs) with the ability to perform a wide range of aircraft services

Customer Support and Services

CUSTOMER ADVANTAGE PLANS (CAP)

Customer Advantage Plans (CAP) safeguard your direct maintenance costs and provide the ultimate in cost predictability. The plans protect your investment and provide confidence of knowing you're backed by the industry leader in customer support. With coverage options for non-standard kits, our customers experience the Bell Advantage.

SIMPLE COMPREHENSIVE PLANS

Bell offers two simple Customer Advantage Plan options: Standard and Premier Plans.

Both offer holistic coverage of the standard helicopter configuration, with optional coverage for non-standard kits. Standard and Premier Plans are both designed to provide peace-of-mind that your aircraft is protected from day one of your aircraft ownership. Why overcomplicate your OEM support?

***Don't just think you're covered...
Know it.***

Program Benefits

- DMC competitive
- Optional non-standard kit coverage
- Preferred rates for aircraft serviced by any of the 100+ Bell Customer Service Facilities (CSFs)
- Streamlined budgeting
- Residual value protection
- Improved financing terms
- Transferable upon aircraft resale*
- Fleet customers may be eligible for no "Buy-Ins"

Bell Global Network Advantage

Bell has the largest and highest rated service network in the industry. CAP members who use a Customer Service Facility for their local maintenance are rewarded with preferred "in-network" rates for their aircraft.

Premier Access to Increase Aircraft Availability

Customer Advantage Plan members have preferred access to Bell's dedicated rotatable pool of parts. This inventory reduces traditional repair or replace turnaround times.

**Upon sale of aircraft, any remaining funds in the aircraft's Premier CAP account may be transferred with execution of new contract.*

CUSTOMER ADVANTAGE PLAN FEATURES

		Premier	Standard
Typical Customer	Aircraft ownership	New aircraft or fleet customers	New aircraft only
	Years of aircraft ownership	5+	<5
	Annual flight hours	High	Low
Coverage	Standard helicopter configuration parts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Optional coverage for kits installed by Bell	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Optional OEM engine coverage	Varies by model	
	Parts used for scheduled maintenance	<input checked="" type="checkbox"/>	
	Parts used for unscheduled maintenance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Life-limited component coverage	<input checked="" type="checkbox"/>	
	Overhauls	<input checked="" type="checkbox"/>	
	OEM-original or authorized parts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Alert Service Bulletins	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Customer Support and Services

CUSTOMER ADVANTAGE PLAN FEATURES

		Premier	Standard
Contract	Minimum annual flight hours	No minimum	No minimum
	Renewable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> **
	Transferable	<input checked="" type="checkbox"/> *	<input type="checkbox"/>
	Preferred rates for using Bell Authorized Customer Service Facilities	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Choice pricing under warranty	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Support	Access to Bell Customer Portal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	On-site technical assistance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	24/7/365 Aircraft on Ground (AOG) support	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

* Upon sale of aircraft, any remaining funds in the aircraft's Premier CAP account may be transferred with execution of a new contract.

** Conditions may apply

NEW AIRCRAFT COVERAGE

The Customer Advantage Plan provides the confidence of knowing you're backed by the industry leader in customer support. For new aircraft, the plans are designed to provide peace-of-mind that your aircraft is protected from day one of your aircraft ownership.

KEY BENEFITS



LOWER RATES
DURING WARRANTY



SAVINGS ON OVERALL
AIRCRAFT SUPPORT



RESIDUAL VALUE
PROTECTION ON AIRCRAFT

WARRANTY AND CAP OPTIONS

CAP COVERAGE (In Network)

3 YEARS/
**2000 HR WARRANTY
+
*3 YEARS LABOR

CAP COVERAGE (Out of Network)

3 YEARS/
**2000 HR WARRANTY
+
*2 YEARS LABOR

STANDARD WARRANTY

3 YEARS/
**1000 HR WARRANTY
+
*1 YEAR LABOR

* year(s) total or time out on aircraft | **with CAP purchased at point of sale

To learn more about how Customer Advantage Plans can assist you with your aircraft operations, please contact CAP@bellflight.com or contact your Bell Sales Representative.

Customer Support and Services

Service Centers

The wide-ranging capabilities of our Customer Support and Services organization provides complete and seamless support - offering Bell customers the advantages of a one-stop helicopter services experience - worldwide.

With services ranging from state-of-the art helicopter customization, aircraft refurbishment and helicopter accessory options to unparalleled maintenance, repair and overhaul solutions, combined with personalized service offerings, Bell provides you with local support in every corner of the world.

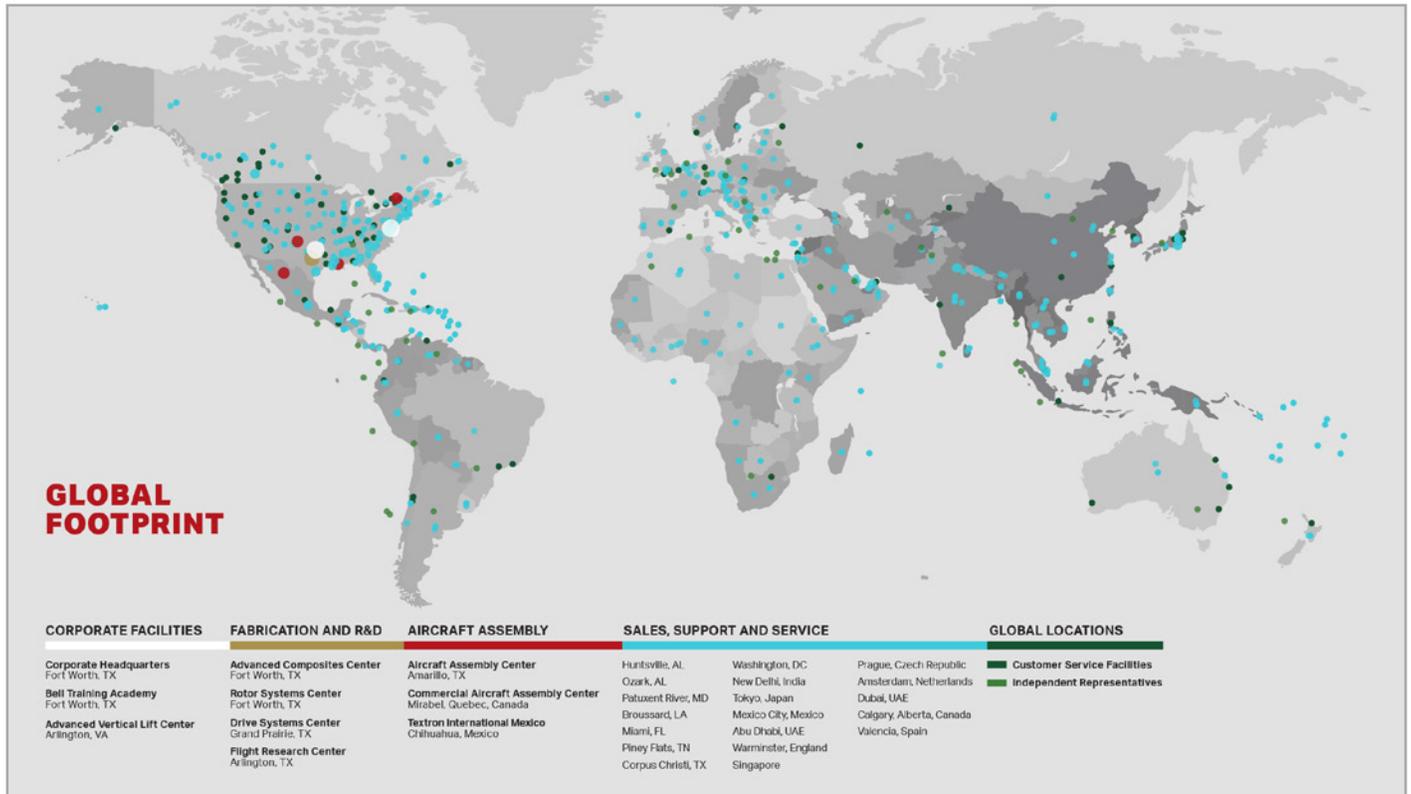
VALUE ADDED SERVICES

		Piney Flats	Miami	Ozark	Singapore	Prague	Broussard	RBI Hawker (UAE)	RBL (United Kingdom)
Component Repair & Overhaul Capabilities	Expanded repair	•		•					
	Transmission	•		•	•				
	Hubs	•		•	•				
	Avionics	•		•		•			
	Rotor blades						•	•	•
	Composite panels						•		
Additional Capabilities	Aircraft customizing	•		•	•	•			
	Aircraft refurbishment	•	•	•	•	•			
	Maintenance, repair & overhaul	•	•	•	•	•			
	Upgrades & mods install	•	•	•	•	•			
	Approved installer of Aeronautical Accessories parts & accessories	•	•	•	•	•			
	Paint service	•		•	•	•			
	Field maintenance & repair	•	•		•	•	•		
	Bell maintenance training	•			•				
	Bell warranty work	•	•	•	•	•	•	•	•

Customer Support and Services

CUSTOMER SERVICE FACILITIES (CSF)

At Bell, we understand the importance of maintaining the readiness of your aircraft. That is why we are committed to providing the helicopter industry’s premier global customer support network. With more than 100 authorized facilities globally, the award-winning Bell Customer Service Facility (CSF) network is there to ensure your aircraft is ready—whenever or wherever you need it.



QUALITY ASSURED AND OEM APPROVED

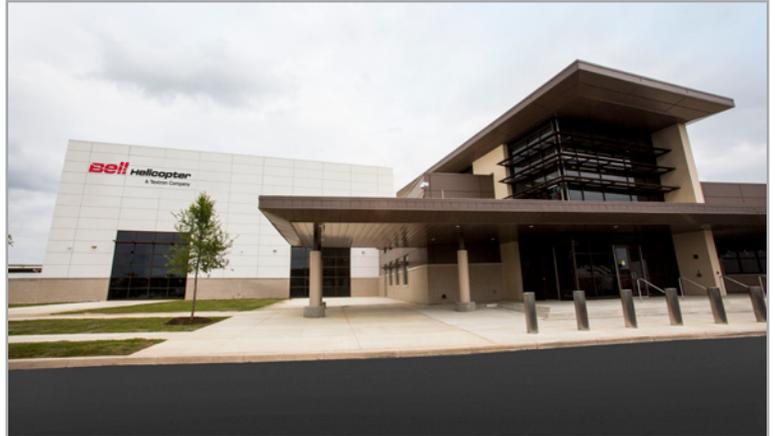
Customers who choose an authorized CSF for maintenance, repair and overhaul work can be assured that both the staff members and the facility itself meet Bell’s stringent internal standards for quality and safety. Authorized CSFs have factory-trained maintenance technicians and are equipped with the training and expertise required to process Bell warranty claims. In addition, these facilities maintain guaranteed parts inventories to service aircraft and possess the most up-to-date technical and safety information available. All of this combines to provide in-region support you can trust.

Training

BELL TRAINING ACADEMY (BTA)

Bell's global training solutions are designed to equip customers with the knowledge and skills necessary to safely and efficiently perform their missions. Since 1946, the Bell Training Academy (BTA) has been committed to providing industry leading training programs that create better, safer flight operations. The BTA staff of highly skilled professional pilot and technical instructors leverages OEM data and expertise to deliver the finest helicopter training in the world. We continue to develop innovative programs that will take our customers' pilot and technical skills to a whole new level.

Pilot and maintenance training is complimentary with each new aircraft purchase. Supplemental, training courses are available at an additional cost.



The Bell Training Academy at Bell's headquarters in Fort Worth, Texas.

STATE-OF-THE-ART TRAINING RESOURCES

Based at the Bell headquarters in Fort Worth, Texas, the BTA combines a track record of excellence with a wide variety of industry-leading amenities.

#1	Pilot and maintenance training consistently ranked #1 the industry.	375+	Years combined experience among Bell's technical instructors
25,000+	Square foot maintenance hangar	8,500	Average instructor pilot flight hours
200,000+	Pilot and maintenance technicians trained	134+	Countries represented by customers in every market segment
2	Full Flight Simulators for the Bell 407GX and Bell 525	6	Advanced Flight Training Devices (FTD) designed to train on seven models

Training

The BTA's 80+ staff members welcome students from all over the world, and are eager to share the knowledge gained from decades of hands-on experience within the military and across other professions. Instruction can be provided in English or Spanish. Language translation is available for an additional cost.

Recognized by the European Aviation Safety Agency (EASA) as an Approved Training Organization (ATO), the BTA has the authorization to provide Part-FCL flight training courses to European customers for the 407, 212/412, 429, and 505 models, including the use of Flight Training Devices (FTD) for the Bell 407 and 429 models. A Performance Based Navigation (PBN) Generic Non-Type or 412/429 Type Rating Specific courses are also approved.

The BTA is also authorized by various international regulatory agencies for type-specific technical training of engineers / mechanics. These agencies include the Civil Aviation Authority of Singapore (CAAS), Transport Canada (TC), European Aviation Safety Agency (EASA), Australian Civil Aviation Safety Authority (CASA), Civil Aviation Administration of China (CAAC), Director General Civil Aviation of India (DGCA), and the UAE General Civil Aviation Authority (GCAA).

GLOBAL TRAINING NETWORK

With nearly 70 percent of our commercial aircraft delivered internationally, Bell understands the need for training to be readily available where our customers perform their missions. Our training centers are equipped and certified to meet the needs of our customers around the globe. We are committed to having resources where our customers operate and are investing to provide world-class, global training solutions to meet a growing customer demand.

Europe: All pilot training classes at Bell Training Academy (BTA) – Valencia, powered by TRU Simulation + Training are instructed upon the Bell 429 EASA-certified Level D Full Flight Simulator (FFS). The Bell 429 FFS by TRU offers the largest standard visual field of view and the largest standard dome radius of any simulator on the market today. Additionally the FFS offers industry-leading motion performance with high-fidelity superior accelerations, smoothness, and responsiveness powered by REALFEEL® Control Loading System and REALVibe™ Secondary Cueing System.

Bell Training Academy (BTA), Valencia, powered by TRU Simulation + Training offers three courses with plans for additional class offerings in the coming years. BTA-Valencia offers a 10-day Bell 429 EASA initial type rating and a Bell 429 recurrent course to reinforce the initial type rating. Additionally, BTA-Valencia offers wet and dry leasing that is custom tailored to each operator. For more information on wet and dry leasing please visit www.bellflight.com/training.

Singapore: BTA Singapore is approved by the Civil Aviation Authority of Singapore (CAAS), European Aviation Safety Agency (EASA), Australian Civil Aviation Safety Authority (CASA), and Director General Civil Aviation of India (DGCA), and the UAE General Civil Aviation Authority (GCAA). BTA Singapore offers regulatory classes for maintenance theory and practical training on all current Bell models and select legacy aircraft. Available courses include avionics maintenance, field maintenance and refresher courses, cable and connector training, and vibration monitoring system training.



Bell training at BHT Singapore.

Training

GENERAL INFORMATION

The operator and maintenance training provided by BTA establishes a foundation that supports mission tasks with aircraft pilot qualification.

Pilot Operator Training: Our pilot training program includes basic academics and initial flight training to transition current pilots into Bell aircraft. All training is conducted by certified Bell instructor pilots.

Maintenance Technician Training: Experience is important, however, instruction received in the classroom and training lab provides an undeniable enhancement. Facilitating more efficient maintenance manpower and improving logistics supportability ensures that the customer's Bell is operational and maintainable in all types of climate and terrain.

Academic training includes both state-of-the-art instructor-led computer presentations and hands-on maintenance training. Mechanical, electrical, and avionics training takes place in a temperature controlled shop and will include use of composite maintenance trainers and avionics bench trainers. The BTA also has operational cutaway mockups, a composite repair room, and an electrical/avionics lab. Over half of the maintenance training is hands-on, skill enhancing, and performance focused instruction. Training is determined complete, as defined by Bell, after each student demonstrates an ability to perform to the course standards for actual maintenance and operation of the equipment referencing technical manuals.

Training Aircraft: The Bell Training Academy conducts flight training in Bell OEM-owned or newly delivered customer aircraft.

Training Materials and Language: Bell provides each maintenance and pilot training candidate a hard-copy course notebook in the English language for each course conducted by BTA instructor personnel. The training materials will be sufficient to train maintenance technicians and pilots who meet the course prerequisites in the maintenance and operation of the applicable model helicopters. Course instructional electronic media, syllabi, course outlines, and company intellectual property will be considered non-deliverables.

Training Technology: Bell is leading the industry in its use of engineering technology to more effectively teach pilots and maintainers around the world. The use of 3-D rendered, high-fidelity, interactive graphics provide students an authentic representation of each component. Smart Board technology allows for independent media manipulations such as assembly and disassembly of system subassemblies and replication maintenance actions without leaving the classroom. The adoption of 3-D modeling of aircraft components and system assemblies has greatly improved training efficiency by enhancing student retention.

Student Registration: The customer is responsible for submitting an enrollment request for each training candidate via Bell's on-line registration process at www.bellflight.com/training. It is encouraged that all training be scheduled at least ninety (90) days prior to the start of each established course date to ensure space and instructor availability.

Cancellation Policy: The customer agrees to comply with the Bell Training Academy cancellation policy as set forth at www.bellflight.com/training.

Trainee Visas: Applying for and receiving a visa for students in a timely manner is the responsibility of the customer. To ensure timely approvals, students must register early.

Trainee Expenses: Arrangements and expenses associated with training, including but not limited to, air travel, ground transportation (car rental/taxi), meals, and lodging for each designated trainee will be the responsibility of the customer.

Training

TRAINING COURSES

The following table summarizes the complimentary training provided with each purchased Bell 505. Additional training options are available at www.bellflight.com/training

BELL 505 TRAINING COURSE SUMMARY

Course	Complimentary	Duration
Pilot Training		
Bell 505 Pilot Ground, Simulator and Transition Flight	1	1 week

COURSE DESCRIPTIONS

Please visit our website at www.bellflight.com/training for complete course descriptions.



Our Aeronautical Accessories brand offers more than 4,000 parts and 1,200 unique supplemental type certificates (STCs), allowing you to upgrade your aircraft to meet the latest mission requirements. Aeronautical Accessories offers a broad selection of competitively priced, proven replacement parts and accessories with the best and most respected customer service in the rotorcraft aftermarket industry.

INNOVATION RELIABILITY & PERFORMANCE

In aviation, innovation must be accompanied by a stringent focus on compliance to ensure your safety and that of your crew and passengers. To deliver on that commitment, Aeronautical Accessories places an uncompromising focus on safety and quality. Our components meet FAA requirements as well as exacting internal standards and are backed by an exceptional warranty—a benefit of being part of the Bell brand. In addition, we are registered under Bell as a certified ISO 9001 with AS9100 Revision D facility.

GLOBAL AVAILABILITY OF PRODUCTS

Through our global distribution and modern inventory management system, we minimize customer downtime for repairs, refurbishments and completions. Aeronautical Accessories is your solution for:

- Windows
- Interior and trim
- Landing gear
- Composites
- Safety and mission equipment
- Doors and seating
- Lighting and vision
- Fuel systems and filtration
- Floats
- Ground handling equipment

To view the full range of Aeronautical Accessories product offerings, please visit www.aero-access.com. To reach Sales & Support, please call 800.251.7094 or by email at sales@aero-access.com.

