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Aircraft Industries

L 410 UVP-E20

PLANE WHICH LANDS ANYWHERE

L 410 UVP-E20 Story

Basic Aircraft Characteristics



The L 410 UVP-E20 aircraft remains the longest produced of the L 410. Even today, it fully meets the customers' requirements and is supplied to operators around the world.

The all-metal, high-wing turboprop commuter, L 410 UVP-E20, is powered by two GE H80-200 engines and AV-725 propellers. The aircraft, in its standard version, is intended for short-haul transport of up to 19 passengers and cargo from remote and undeveloped areas to major cities. Depending on its equipment, it is suitable for various purposes.

Since 1969, more than 1,200 aircraft in the L 410 series have been produced. Currently, there are over 350 aircraft of this series in more than 60 countries all over the world in operation. The L 410 UVP-E20 model entered production at the end of the 1980s.

The L 410 UVP-E20 model is type-certified by the aviation authorities of the European Union (EASA), the USA (FAA), the Russian Federation (FATA) and authorities of many other countries around the world.

Basic Aircraft Advantages

- » durable retractable landing gear enables take-off and landing on unpaved strips, including: rain-soaked grass, sand, snow or airfields with slush (minimum airstrip strength of 6 kg/cm² (85 psi) needed)
- » ability to land and take-off on short runways (STOL capabilities)
- » tough and durable structure which enables operation in severe conditions
- » ability to operate under extreme climatic conditions, ranging from -50 °C to +50 °C

- » outstanding versatility with a number of quick change kits
- » the most spacious passenger compartment in the commuter category
- » easy handling and low operating and maintenance costs
- » excellent safety record and reliable operation
- » remarkable hot and high performance

**wing tip tanks enable
1 500 km (810 NM) of range**

**front luggage compartment
accessible from outside**

**besides the standard passenger
and cargo door, it is possible
to install sliding or roll doors**

**wide-track main wheels provide
aircraft stability during take-off**

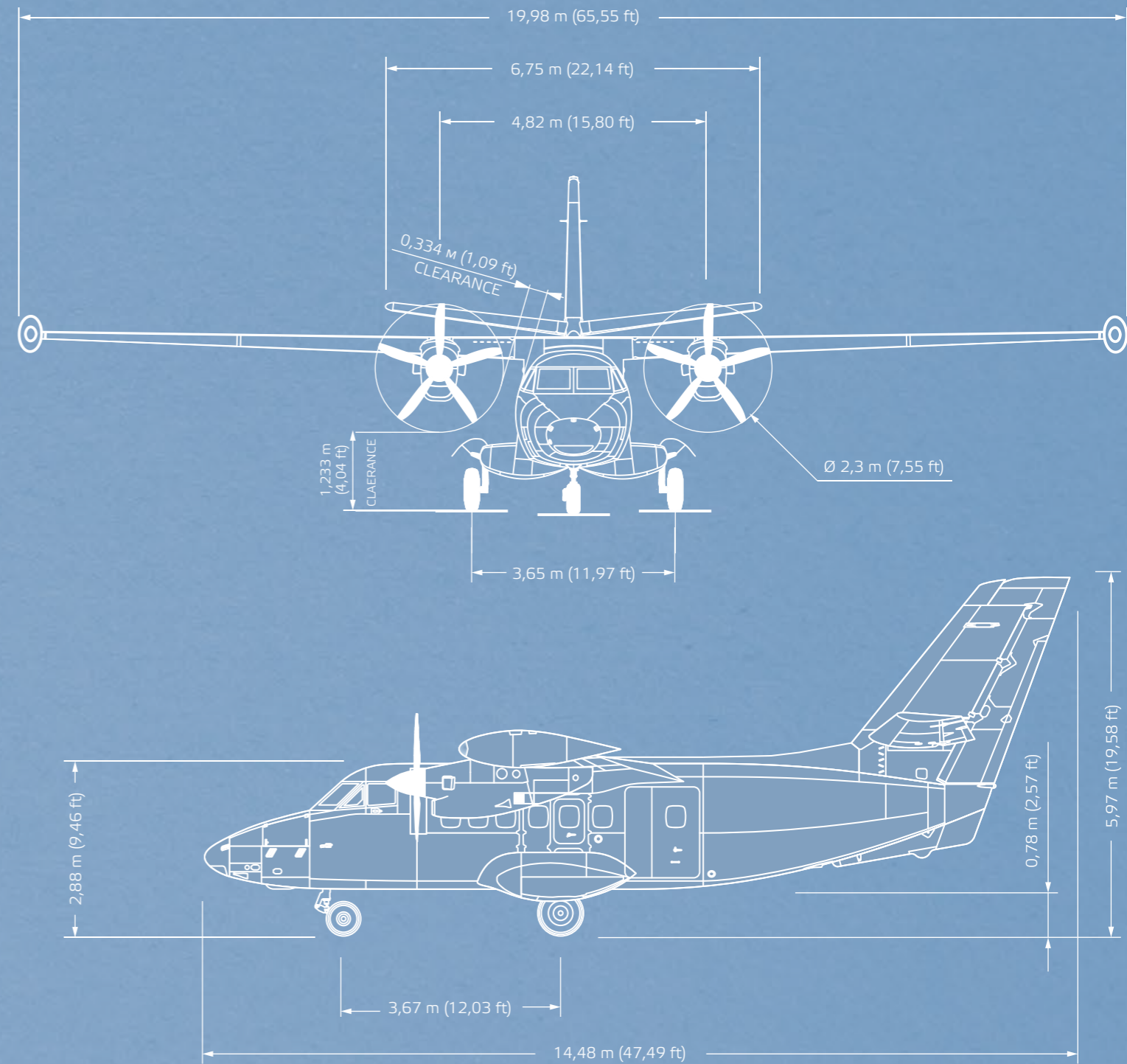
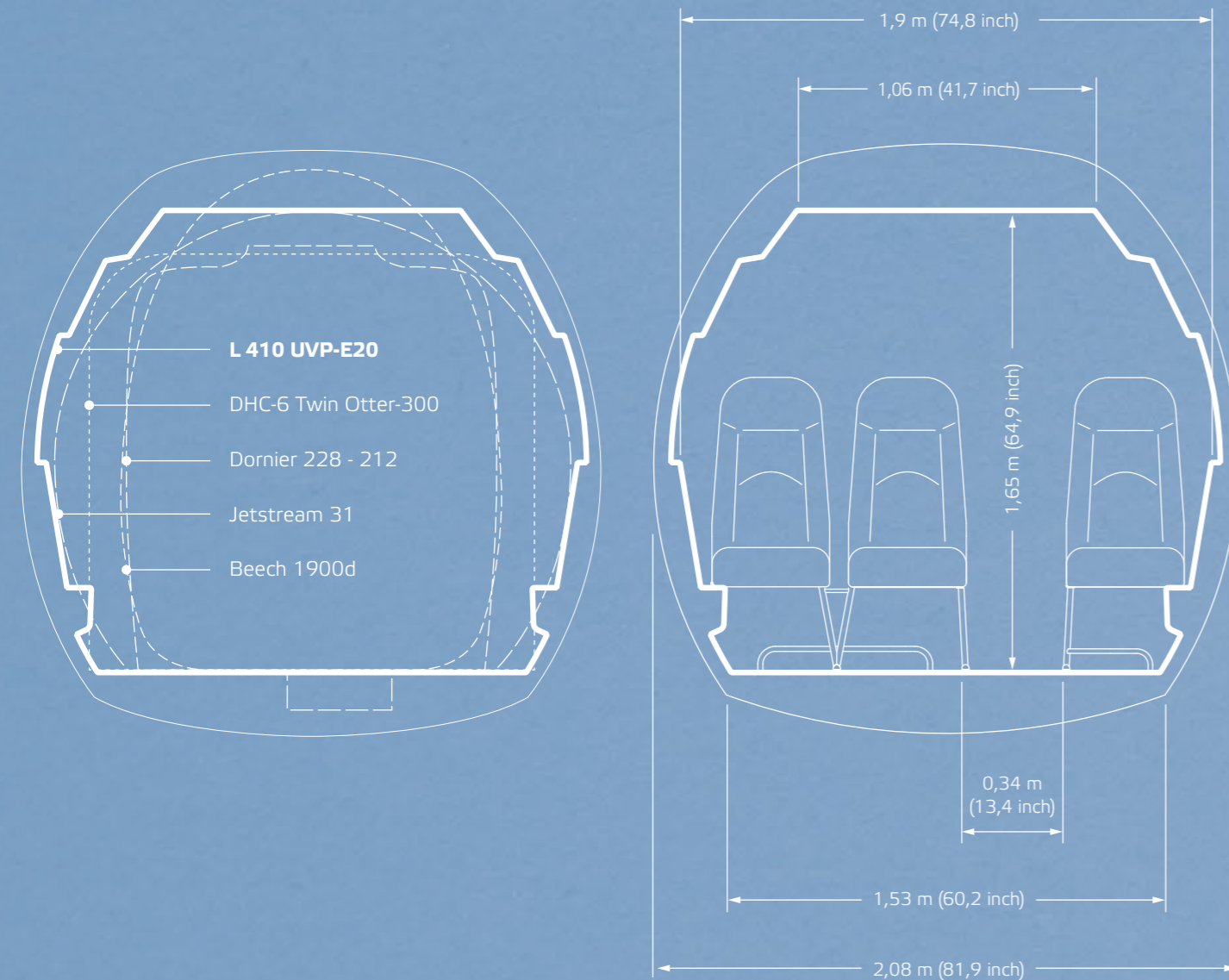
**robust landing gear with low
pressure tires are suitable
for operation on rain-soaked,
undeveloped airstrips**

**variable rear luggage
compartment accessible
from inside**



The Most Spacious Cabin

Dimensions and Weights



Dimensions

Passenger Cabin Volume	17,9	m ³	632	ft ³
Passenger Door	0,8 x 1,46	m	31,5 x 57,5	in
Cargo Door	1,25 x 1,46	m	49,2 x 57,5	in
Seats Pitch	0,76	m	29,9	in
Luggage Compartment Volume	1,47	m ³	51,9	ft ³

(standard passenger version)

Weights

Max. Take-off Weight	6 600	kg	14 550	lb
Max. Landing Weight	6 400	kg	14 109	lb
Max. Zero Fuel Weight with tip tanks	6 060	kg	13 228	lb
Max. Payload	1 800	kg	3 968	lb
Max. Usable Fuel	1 300	kg	2 866	lb

Flying Beyond Expectations

Performance

Max. Cruise Speed	405 km/h	219 KTAS
Max. Range *	1 500 km	810 NM
Max. Endurance *	5,1 h	306 min
Service Ceiling	4 200 m	14 000 ft
One Engine Inoperative Ceiling	4 755 m	15 600 ft
Absolute Ceiling	8 382 m	27 500 ft

* 45 minutes reserve

Climb Rate

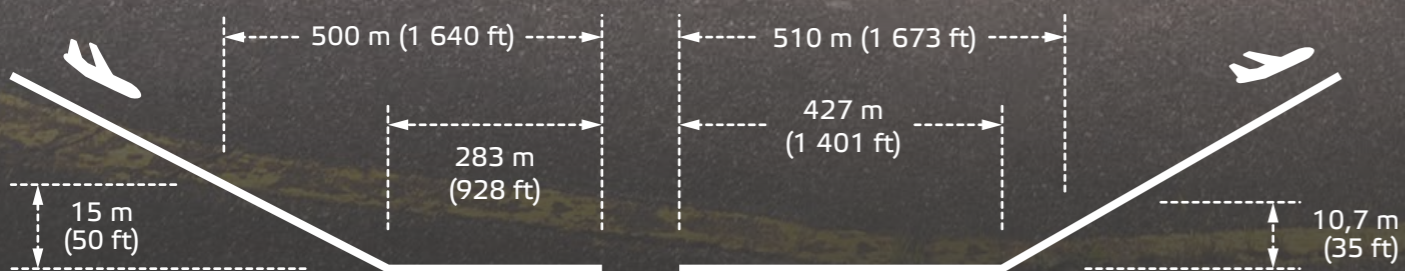
Both Engines	8,5 m/s	1 673 fpm
Single Engine	1,8 m/s	354 fpm

Take-off Distance Required

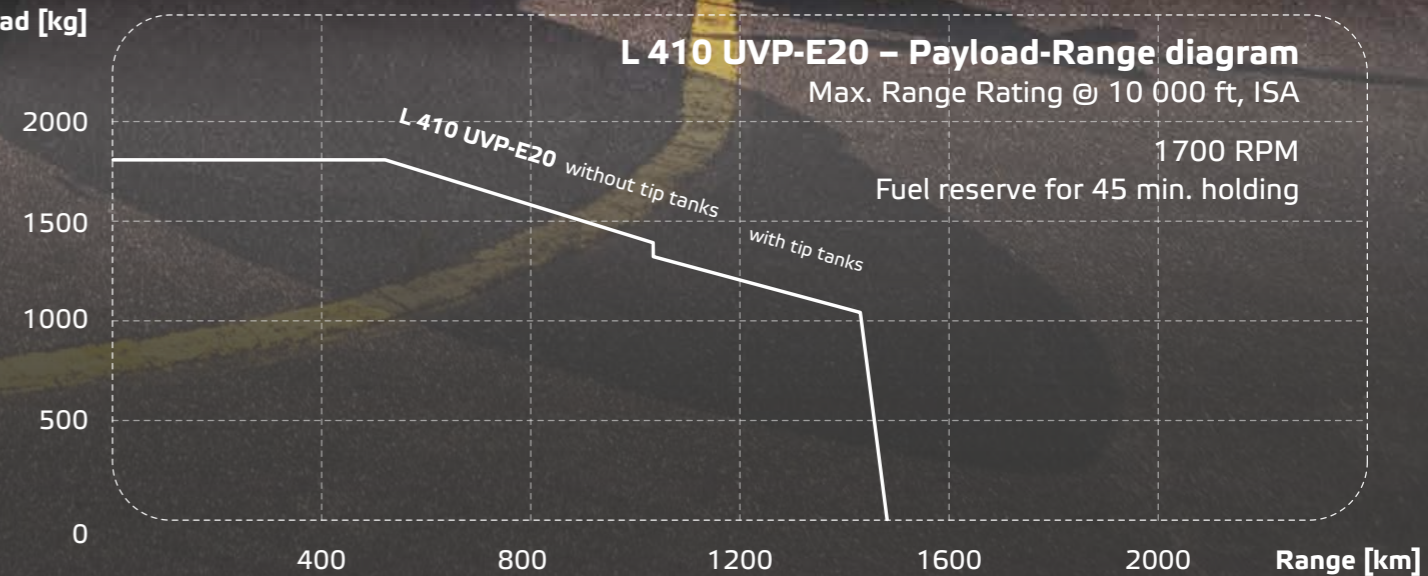
510 m 1 673 ft

Landing Distance Required

500 m 1 604 ft



Payload [kg]



Power Plant

The efficient and reliable GE H80-200 engine continues the long remarkable history of the M601 engine's durable operation under the most rigorous conditions all over the world. The two shaft, reverse-flow turboprop engine, with free turbine, has low fuel consumption and low-cost maintenance, which makes the engine highly competitive and extremely cost effective. Metal double-action highly efficient AV-725 propellers are extremely durable and resistant to rough conditions on unpaved airstrips. Propellers are equipped with a system of automatic and manual feathering.

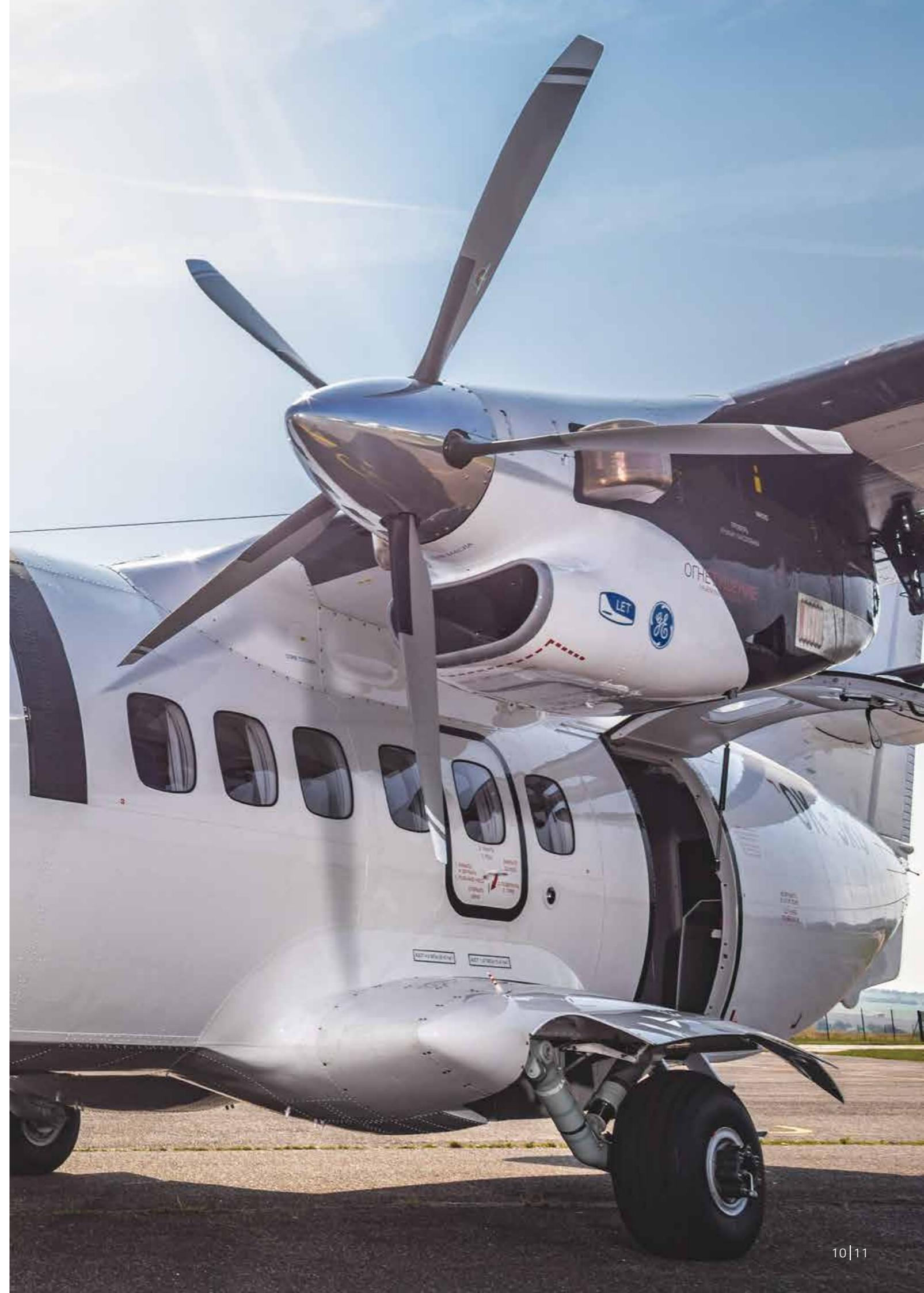


Engines

- » Model: GE H80-200
- » Producer: GE Aviation Czech s.r.o.
- » Max. take-off performance: 597 kW / 800 SHP
- » Max. continuous performance : 522 kW / 700 SHP
- » TBO: 3600 – 4 000 FH
- » Dry engine weight: 201 kg
- » Without HSI (hot section inspection)

Propellers

- » Model: AV-725
- » Producer: Avia Propeller s.r.o.
- » Number of blades: 5
- » Diameter: 2,3 m (7,5 ft)
- » Clockwise rotation
- » High propulsion efficiency
- » Reverse-thrust setting
- » TBO: 3600 FH / 6600 FC
- » Weight: 88 kg (207 lb)
- » Low noise level
- » Possibility to transport blades separately





Safety First

Avionics and Instrumentation

The L 410 UVP-E20 is equipped with innovated avionics and instrumentation from Garmin, Universal and Honeywell to provide the highest level of safety and comfort. It is fully equipped for IFR flights.

Standard Equipment

- » Semi-glass cockpit – 2 primary flight displays EFIS from Universal
- » Garmin GPS/Comm/Nav Systems (GTN 750 and GTN 650) - enhanced multifunction display with touch screen interface
- » Garmin GWX 70 Weather Radar - advanced radar with a new solid-state transmitter design
- » TAWS – terrain avoidance warning system is integrated in GTN 750
- » L3 Communication Trilogy ESI-2000 Electronic Standby Instrument - combines attitude, altitude, airspeed, slip/skid and optional heading data into a single digital display

Optional equipment

- » TCAS II - Garmin GTS 8000 with dual GTX 3000 Transponders, corresponding to the latest European regulations for TCAS change Chapter 7.1
- » Autopilot - KFC 325
- » High Frequency Transceiver - KHF 1050

The newly incorporated equipment widely enhances a safe level of operation and further adds to the cut down on maintenance and fuel costs.

Outstanding Versatility

Multipurpose Aircraft

The L 410 aircraft is operated by private airlines as well as governmental institutions, non-governmental organizations, air forces and aeroclubs around the world.

The spacious, oval fuselage with almost 18 m³ of passenger cabin volume, provides the highest standard of passenger comfort as well as maximum versatility and opportunity for utilization of the aircraft for a number of different applications and special missions. The versatility of the L 410 UVP-E20 is increased by a number of quick change kits which can easily transform the aircraft from a passenger version to an air ambulance, cargo or sky diving version.

The aircraft is produced in following basic versions:

- » Standard configuration
- » Cargo containers or foldable seats
- » Air ambulance / Medevac
- » Sky diving
- » Photogrammetric Scanning, Maritime, Surveillance and Patrol Version

Standard equipment for all versions includes:
de-icing system, heating, ventilation, cargo door

Available on request for all versions:
air-conditioning, tail surface lighting, single point refueling

Standard Configuration for 19 passengers

Standard equipment:

- » Front (max 100 kg) and rear (max 150 kg) luggage compartment accessible from the passenger cabin
- » Simple emergency chemical toilet in the rear of the aircraft
- » Wide choice of upholstery fabrics including leather



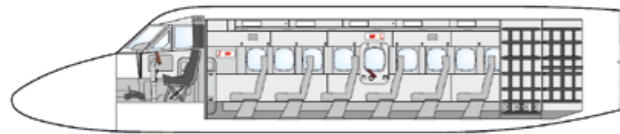
Additional equipment for standard version available on request:

- » Service tables
- » 32" LCD monitor
- » Headphones
- » Attendant foldable seat
- » DVD player
- » Variable luggage compartment



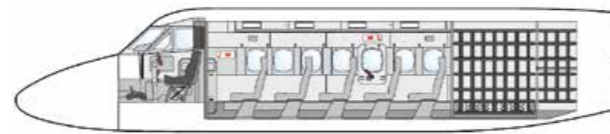
Extendable Cargo Module Quick Change Kit

- » Possibility to enlarge the rear luggage compartment by removing the last two or four seats as follows:
- » 17 passengers plus extra 215 kg of cargo – in total 365 kg in rear luggage compartment
- » 15 passengers plus extra 330 kg of cargo – in total 480 kg in rear luggage compartment



100 kg
0,6 m³

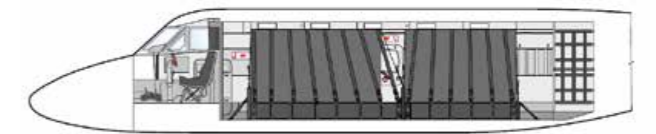
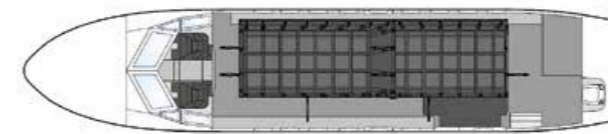
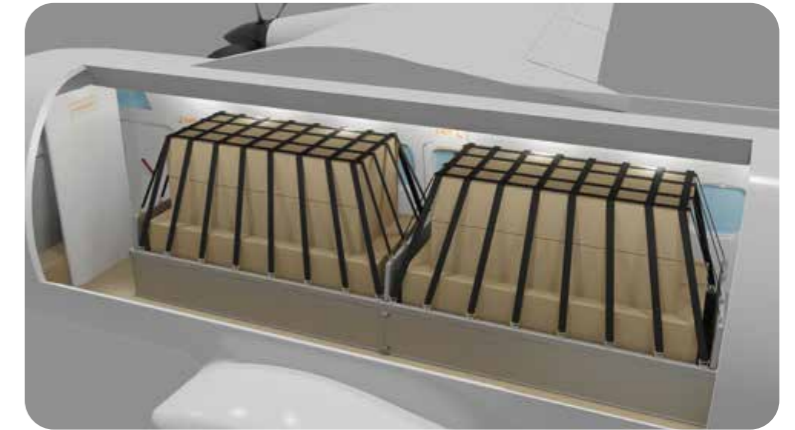
17  365 kg
1,93 m³



15  480 kg
2,97 m³

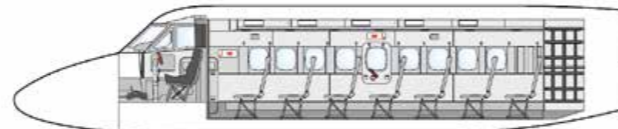
Cargo Quick Change Kit

- » Transportation up to 1 700 kg
- » Max dimensions of cargo
4 m x 1,08 m x 1,5 m
(13 ft x 3,54 ft x 4,92 ft)
- » Nets and belts to secure the cargo



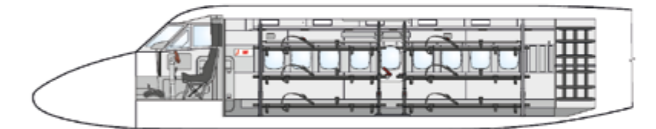
Foldable Seats Quick Change Kit

- » Light weight seats (weighing up to 20 kg less than the standard seats)
- » Easy conversion from passenger to cargo version and vice versa
- » Net system for cargo fixation to the floor



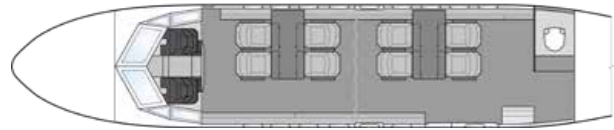
Basic Air Ambulance Quick Change Kit

- » Six stretchers (with belts)
- » Seats for three accompanying medical staff
- » Collapsible table



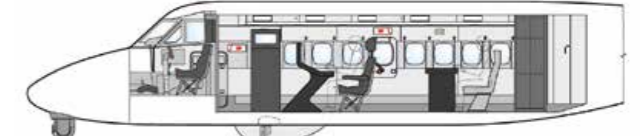
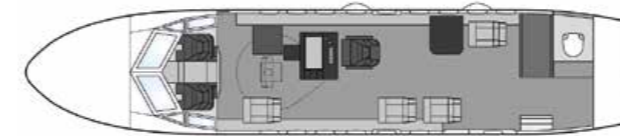
VIP Passenger Version

- » Wide selection of equipment (kitchenette, audiovisual equipment, toilet room, etc.)
- » 4-8 seats upon customer request
- » 2 tables
- » Improved interior



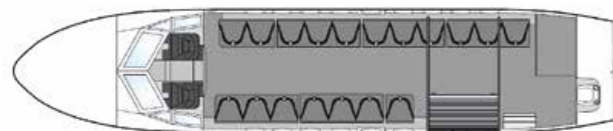
Photogrammetric Scanning, Maritime, Surveillance and Patrol Version

- » Among the frequently used equipment and devices are search radar, SLAR, EO/IR sensor, special digital cameras, scanners and bubble windows
- » Wide range of special missions (search and rescue operations, natural/industrial disaster management, monitoring borders and coast lines, fishery protection, oil pollution, chemical dumping detection, management of shipping,...)
- » Individually configured
- » Wide range of functions (detection, search, recording, observation,...)
- » Professional equipment (special devices and sensors, search radar, SLAR, EO/IR camera, scanners,...)



Sky Diving Quick Change Kit

- » Foldable seats for 18 skydivers with fastening belts
- » Wide roll-up door
- » External footboard for a photographer
- » Signalling lights



The MPA version can be utilized for a wide range of special missions such as search and rescue operations, natural/industrial disaster management, monitoring borders and coast lines, fishery protection, oil pollution, chemical dumping detection or management of shipping. The MPA version is individually configured, according to the deployment of aircraft for specific missions and allows a wide range of functions such as: detection, search, recording and observation. It can be equipped with special devices and sensors which enable analysed data to be displayed on digital maps and to be processed and transmitted on-line directly to a ground station through a satellite link.

Technical Support and Services

After Sales Customer Service offers following support:

- » Technical consultations and/or specific assistance related to aircraft inspections, repairs and other services
- » Regular Bulletin Service including operational documentation
- » Issuance of Information bulletins as per individual requirements (aircraft modifications, repairs, avionic modernisations, etc.)
- » Assistance with repairs, including structural analysis and analysis of technological procedures for repairs
- » Warranty claims solutions
- » Provision of special servicing and testing equipment for aircraft maintenance



- » Assistance with ferry flights or provision of ferry flights
- » Route and economy analysis
- » On-site factory personnel to provide customer assistance for the aircraft operation
- » Type rating pilot's training in training organization in the Czech Republic, approved in accordance with Part 147 EASA, FFS Level D (Type VII) qualification certificate. Pilots are trained on the most modern L 410 flight simulator certified in the D category, which meets all regulatory requirements for the highest level of these devices according to the standards of ICAO (Type VII), EASA, FAA (Level D) and FATA.
- » Delivery of original and certified spare parts via our Spare Parts Department
- » 24/7 service

Maintenance

Aircraft Industries carries out the whole range of maintenance services through Maintenance Organization approved in accordance with Regulation (EC) No. 2042/2003 and Annex II (Part 145).

Aircraft Industries offers following services:

- » Periodical maintenance and inspections
- » Modifications, upgrades and modernization
- » New paint upon customers' request
- » Field and in-house repairs
- » Aircraft technician's assistance during the initial phase of operation [all personnel are certified in accordance with Regulation (EC) No. 2042/2003 and Annex III (Part 66)]
- » Type rating training of aircraft engineers by the training organization in the Czech Republic, approved by EASA Part 147

On The Wings of
Safety and Comfort

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