



Aircraft Industries



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L 410 NG

INNOVATIVE · ROBUST · MULTIROLE

L 410 NG Czech Aviation Masterpiece

Basic Aircraft Characteristics

The L 410 NG is a modern turboprop commuter aircraft designed and manufactured in the Czech Republic, proudly representing the innovation and quality of the European Union's aerospace industry.

As a multirole aircraft, the L 410 NG is ideal for a wide range of missions, including passenger transport, cargo operations, and special-purpose applications. Its versatility makes it a trusted solution for operations in remote and challenging environments.

Certified by the European Union Aviation Safety Agency (EASA), the Federal Aviation Administration (FAA), and the Russian Federal Air Transport Agency (FATA), the L 410 NG meets the highest global standards of safety and performance.

The aircraft is equipped with a state-of-the-art Garmin G3000 Glass Cockpit, ensuring access to cutting-edge avionics technology for safe and efficient operations. Its advanced design includes integral fuel tanks within the wing structure, providing extended range and endurance. Powered by two GE H85-200 engines and AV-725 propellers, the L 410 NG is built to perform reliably under all conditions.

With the capacity to carry up to 19 passengers and an enlarged luggage and cargo compartment, the L 410 NG combines practicality, efficiency, and the world renowned quality of Czech aviation manufacturing. It is more than an aircraft – it is a testament to the Czech Republic's dedication to precision, innovation, and excellence in the aviation industry.



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 6,0 kg/cm² (85,3 psi) needed]
- » ability to land and take-off on short runways (STOL capabilities 590 m to land and 600 m for take off)
- » tough and durable structure which enables operation in severe conditions
- » the most spacious passenger cabin in the commuter category (more p. 5)
- » remarkable hot and high performance
- » ability to operate under extreme climatic conditions, ranging from -50 °C to +50 °C
- » longer range and endurance than previous L 410 UVP-E20 model (more p. 7-8)

- » high payload capacity
- » outstanding versatility with a number of quick change kits, increasing aircraft utility (more p. 13-19)
- » easy handling with low operating and maintenance costs
- » low noise level in the passenger cabin
- » reliable operation
- » wet wing
- » certified autopilot GFC 700 (part of G3000 system)



**More
fuel capacity**

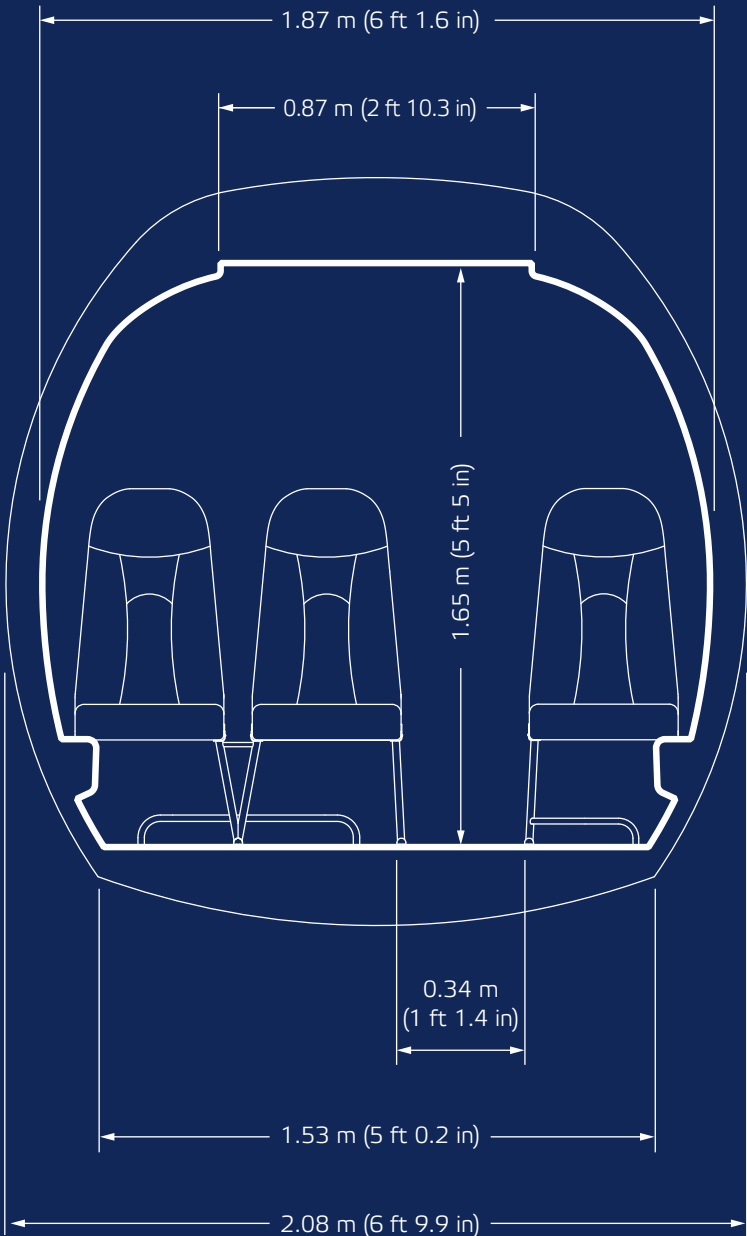
**Cantilever wing without
supporting struts**

**Full
glass cockpit**

**Engines without
hot section inspection**

The Most Spacious Cabin

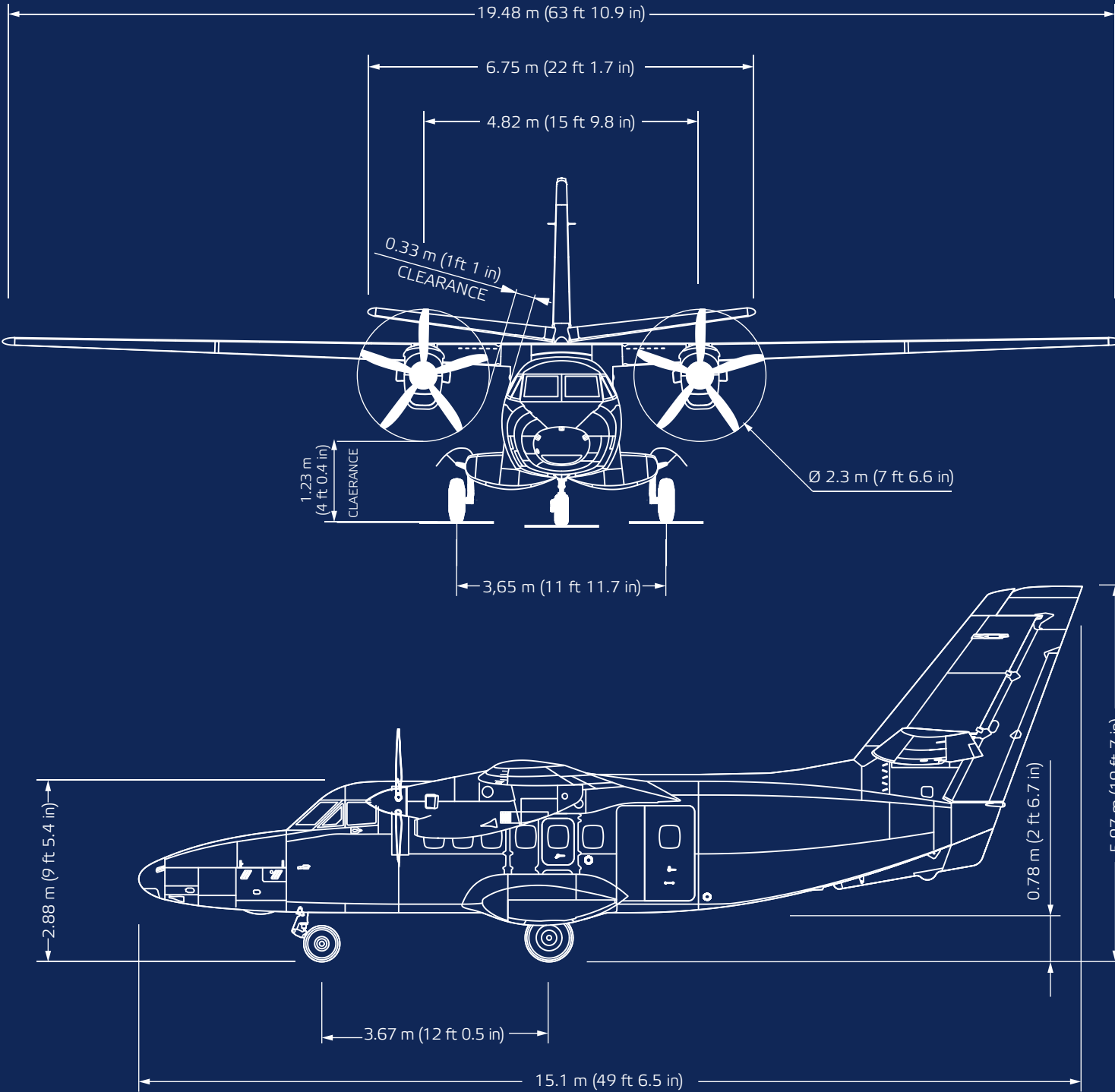
Dimensions and Weights



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
Front Luggage Compartment Volume	2.31	m ³	81.6	ft ³

(standard passenger version)



Weights

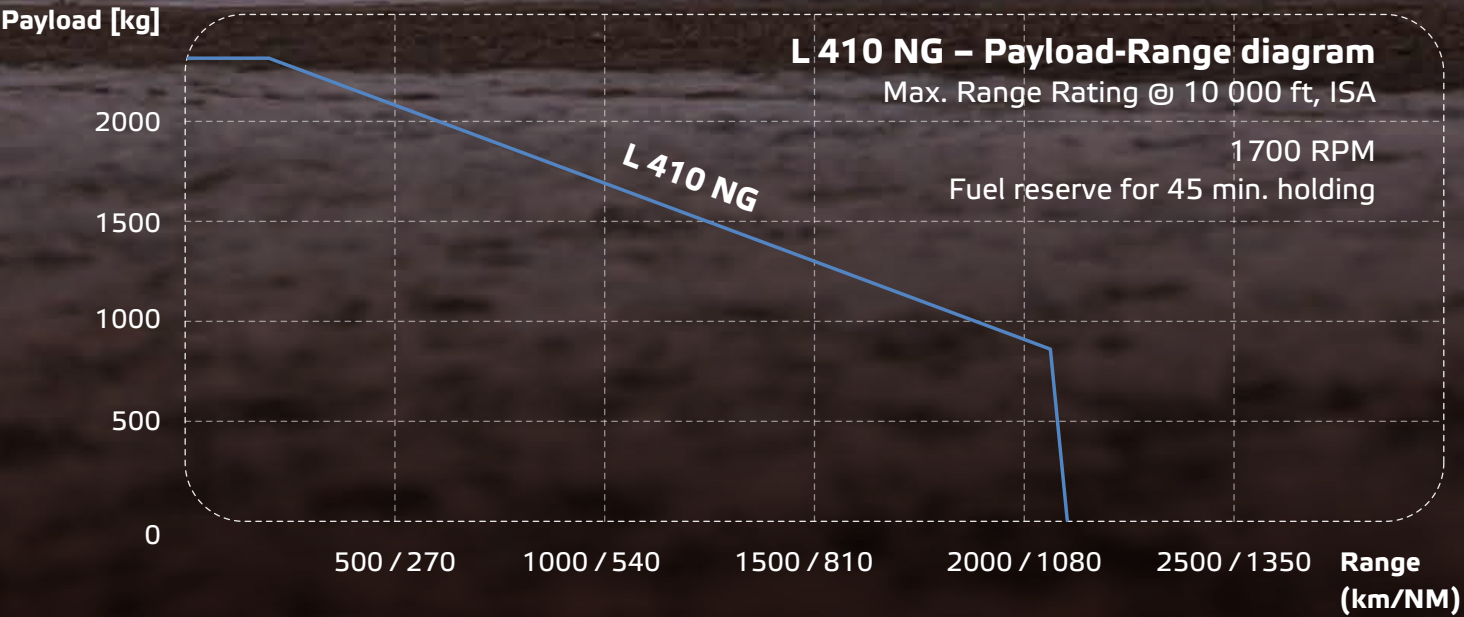
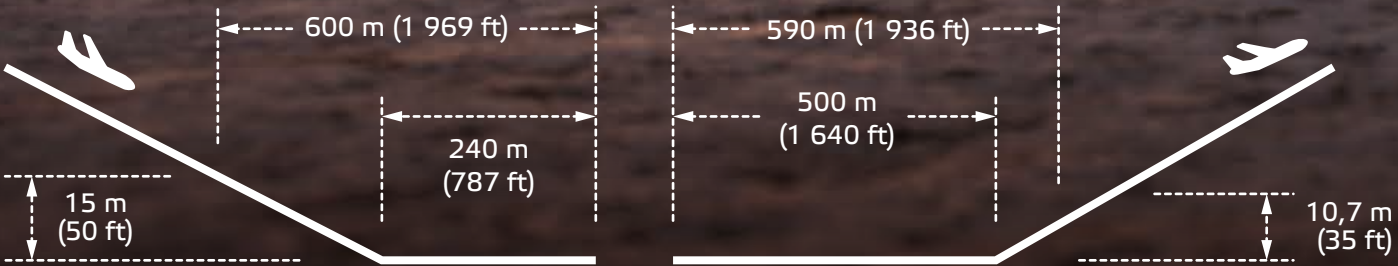
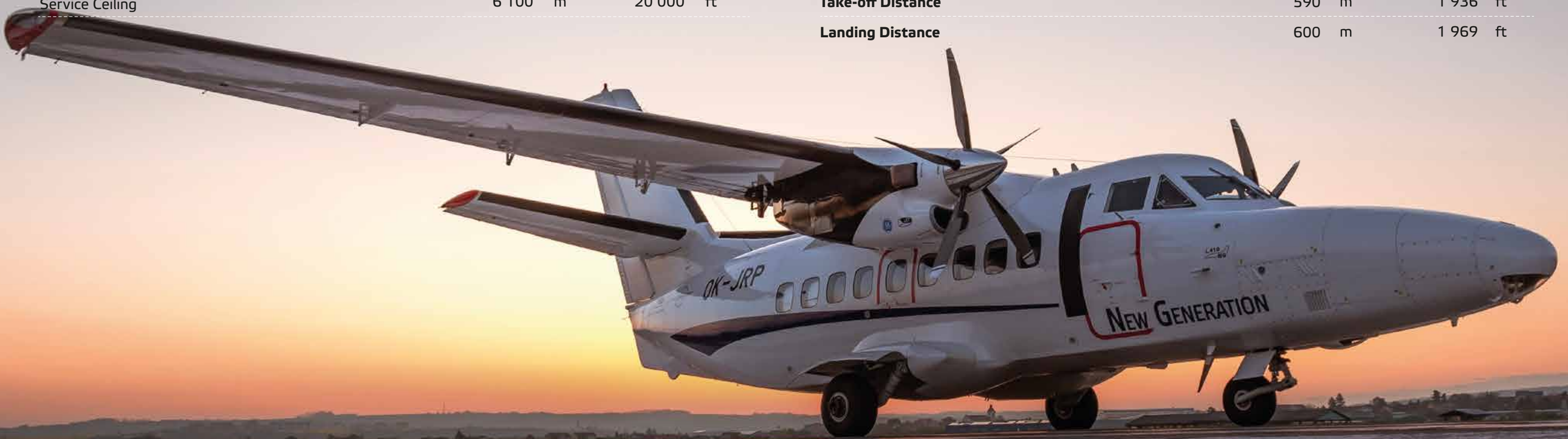
Max. Take-off Weight	7 000	kg	15 432	lb
Max. Landing Weight	6 800	kg	14 991	lb
Max. Zero Fuel Weight	6 600	kg	14 551	lb
Max. Payload	2 300	kg	5 071	lb
Max. Fuel Weight	1870	kg	4 122	lb

Flying Beyond Expectations

Performance

Max. Cruise Speed	417	km/h	225	KTAS
Max. Range	2 100	km	1 134	NM
Max. Endurance	8.5	h	510	min
Maximum Operating Altitude	4 000	m	13 000	ft
Service Ceiling	6 100	m	20 000	ft

Climb Rate				
Both Engines	8.5	m/s	1 673	fpm
Single Engine	1.7	m/s	335	fpm
Take-off Distance	590	m	1 936	ft
Landing Distance	600	m	1 969	ft



Power Plant

The GE H Series engine features sophisticated technologies such as 3D aerodynamic airfoil designs, blisk (bladed disk) compressor rotors, and high temperature materials. These technologies deliver more shaft horsepower, improved engine fuel efficiency and increased temperature margin, significantly increasing hot-day takeoff capability and high-altitude performance. GE H85–200 engine features an advanced reduction gearbox which lowers maximum propeller speed from 2 080 RMP to 1 950 RMP, resulting in external and internal noise reduction.

The unique configuration of the engine simplifies maintenance by eliminating the need for recurrent fuel nozzle maintenance and periodic hot section inspections.



Engines

- » Model: GE H85–200
- » Producer: GE Aviation Czech s.r.o.
- » Proven design, successor of M601 engine, 4 500+ pieces delivered
- » Two-shaft, free turbine, reverse-flow design
- » Power: 634 kW / 850 SHP
- » Flat rated temperature: 31 °C
- » Max. continuous power: 634 kW / 850 SHP
- » TBO: 3 600 FH
- » Dry engine weight: 204 kg
- » HSI (hot section inspection) is not required
- » None Fuel nozzle inspection

Propellers

- » Model: AV–725
- » Producer: Avia Propeller s.r.o., Czech Republic
- » Propeller speed: 1 950 RPM
- » TBO: 3 600 FH / 6 600 FC
- » Weight: 79 kg (174 lb)
- » Low noise level
- » Possibility to transport blades separately
- » 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





Avionics and Instrumentation

State of the art avionics Garmin G3000 Glass Cockpit Technology

Standard Equipment

PRIMARY FLIGHT INSTRUMENTS

- » Dual Primary Flight Display GDU 1250W
- » Multifunction Display GDU 1250W
- » Dual Multi System Touchscreen Controller GTC 575

BACK-UP FLIGHT INSTRUMENTS

- » Electronic Stand-by Instrument MD302 SAM

PRIMARY FLIGHT SENSORS

- » Dual independent Air Data Computer GDC 7400
- » Dual independent Heading Reference System GRS7800

AUTOMATIC FLIGHT CONTROL SYSTEM

- » Integrated Autopilot System GFC 700
 - Dual Autopilot Cat I, Dual FD, 3 axis + YAW damper, Auto/Manual elevator trim

NAVIGATION

- » Dual Flight Management System
- » GNSS, GPS
- » Dead-reckoning mode
- » Graphical/PC Flight Planning
- » Multi Leg VNAV
- » Automatic Direction Finder ADF 4000
- » Dual Distance Measuring Equipment DME 4000

COMMUNICATION

- » Dual independent VHF radio integrated in GIA 64
- » Dual independent Audio Processor GMA 36B
- » Satellite communication System GSR 56 (Iridium)

HAZARD AVOIDANCE AND SURVEILLANCE

- » Integrated TAWS A
- » Traffic processor TCAS II (7.1) GTS 8000
- » Solid state color Weather Radar GWX75
- » Garmin Flight Data Services (GFDS) Worldwide
- » Weather Datalink GSR 56 (Iridium)

USER INTERFACE

- » Central Maintenance Function / Data logging

DATA RECORDERS

- » Flight Data Recorder FDR-25 from Universal
- » Cockpit Voice Recorder CVR-120A from Universal

OPTIONAL EQUIPMENT

- » High Frequency Transceiver – KHF 1050
- » Synthetic Vision System
- » Garmin FliteCharts and Jeppesen ChartView
- » Electronic Checklist
- » Wi-Fi

Outstanding Versatility

Multirole Aircraft

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 new wing structure with integral fuel tank (wet wing) and increased fuel capacity offers new opportunity to utilise the aircraft more extensively as a maritime, patrol and surveillance version.

The aircraft is produced in following basic versions:

- » Standard configuration
- » Foldable seats
- » Cargo nets
- » Sky diving
- » Air ambulance (6 stretchers or 4 stretchers Patient isolation unit)
- » Emergency Medical Services
- » Photogrammetric Scanning, Maritime, Surveillance and Patrol Version, ISR
- » VIP version

Standard equipment for all versions includes:

de-icing system, heating, ventilation, cargo door

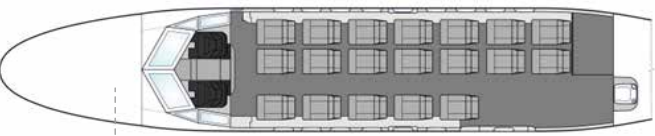
Available on request for all versions:

air-conditioning, tail surface lighting, single point refueling

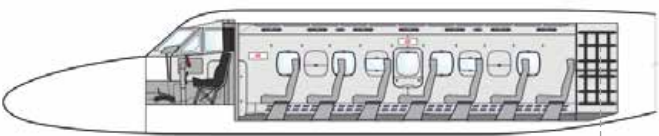
Standard Configuration for 19 passengers

Standard equipment:

- » Front (max 300 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



Large front luggage compartment enables to transport more cargo



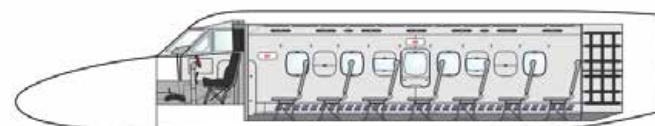
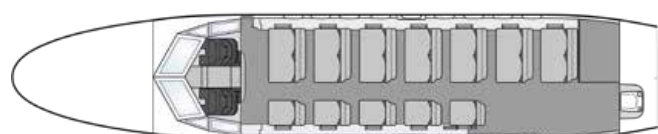
150 kg — 0,94 m³

Additional equipment for standard version available on request:

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

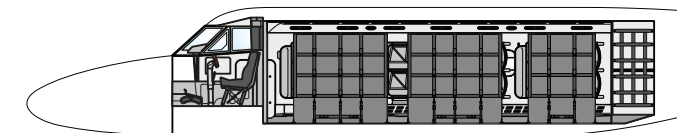
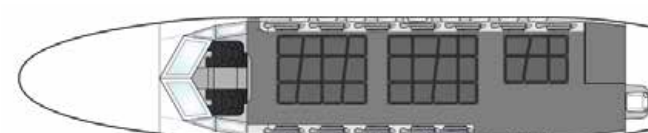
Foldable Seats Quick Change Kit

- » 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



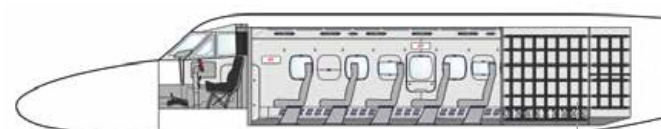
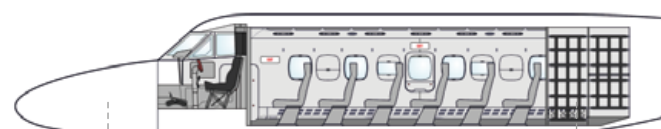
Cargo Quick Change Kit

- » Transportation up to 1 700 kg in the cabin and additional 150 kg in the rear luggage compartment
- » Nets and belts to secure the cargo



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 (15 passengers) plus extra 215kg (330 kg) of cargo — in total 365 kg (480 kg) in rear luggage compartment



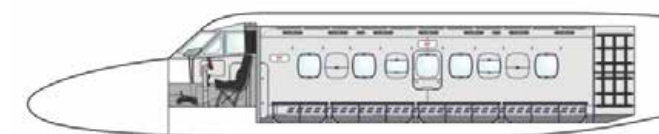
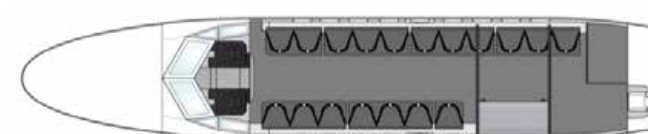
300 kg
1,37 m³

17  365 kg
1,93 m³

15  480 kg
2,97 m³

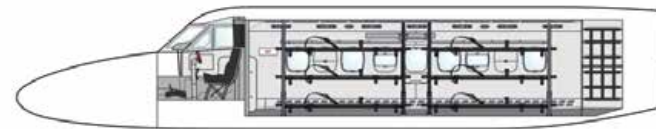
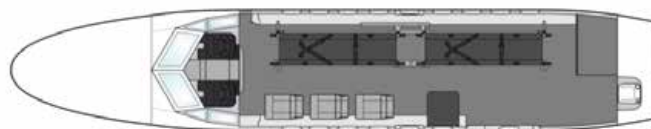
Sky Diving Quick Change Kit

- » Bench for 18 skydivers with fastening belts
- » Wide roll-up door
- » Signalling lights



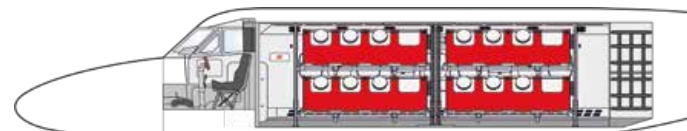
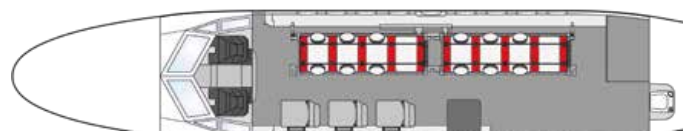
Basic Air Ambulance Quick Change Kit

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



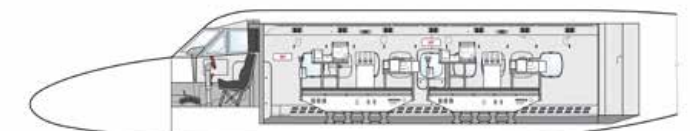
Patient Isolation Unit

- » 4 stretchers (with belts)
- » Seats for three accompanying medical staff
- » Collapsible table
- » Compatible with Bio-bag EBC — 30/40/IN/Ch



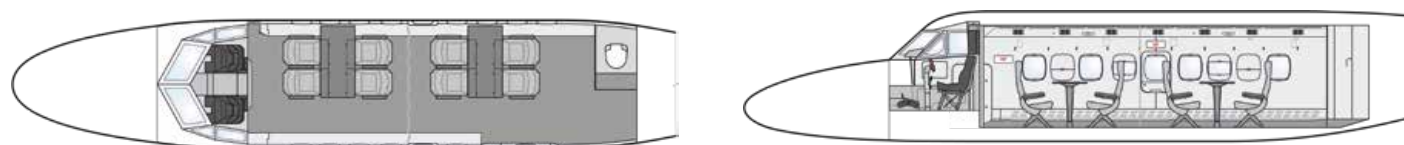
Provisions For Fast Professional Medical Aid

- » One or two bed-ridden patient with immediate medical care
- » Seating for a doctor and accompanying staff
- » Special medical accessories



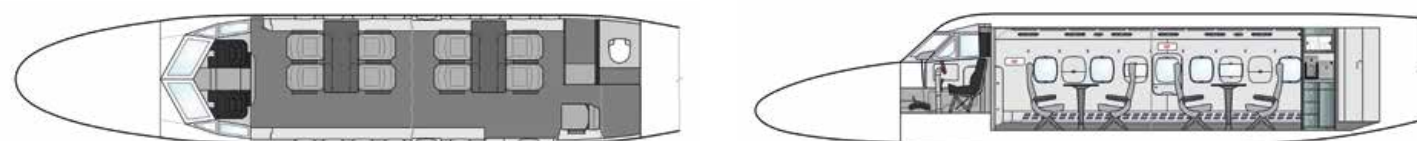
VIP Basic

- » Wide choice of equipment
- » 4 — 8 seats upon customers request
- » 2 tables
- » Kitchenette, audiovisual equipment, toilet



VIP Standard

- » 8 leather VIP seats and 2 tables
- » Jumpseat
- » Standard lavatory with running water
- » LCD TV on the bulkhead behind the pilots
- » Integrated galley
- » USB seats ports — 4 pcs from the side wall of the plane (double USB)



L 410 NG MPA/ISR

Photogrammetric Scanning, Maritime, Surveillance and Patrol Version

- » Endurance of L 410 NG up to 8,5 hr
- » 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,...)



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).

| L 410 Aircraft Maintenance Program

Routine maintenance checks:

- » R1 revision done after every 5 000 flight hours or 10 years

Periodic maintenance checks:

- » 1. P1: 100 flight hours inspection
- » 2. P2: 300 flight hours inspection
- » 3. P3: 1 200 flight hours inspection
- » 4. P4: 2 400 flight hours inspection

| 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