





BRAND NEW L-39 SKYFOX

We are thrilled to present our latest achievement in aviation engineering: the newly designed and developed aircraft, embodying the essence of innovation while honoring the timeless legacy of its predecessor, the legendary L-39 Albatros.

PROVEN RELIABILITY AND SAFETY

Building on the renowned reliability of the L-39 Albatros, our aircraft features a rugged airframe designed to withstand the most demanding conditions. The reinforced canopy and the Martin-Baker ejection seat further enhance overall safety, providing superior protection for student pilots throughout every phase of training.

INNOVATIVE DESIGN

Our team of engineers has meticulously crafted every aspect of the aircraft, ensuring optimal aerodynamics, stability, and efficiency.

UNMATCHED PERFORMANCE

With increased speed, range, and maneuverability, our aircraft surpasses its predecessor in every aspect, setting new standards for excellence in the skies.

STATE-OF-THE-ART TECHNOLOGY

Equipped with the latest avionics systems and navigation aids, our aircraft offers unparalleled precision and control.

EXCEPTIONAL COMFORT

Designed with the pilot and passengers in mind, our aircraft boasts a spacious and ergonomic cabin, providing unparalleled comfort even during long flights.

BEST IN CLASS OPERATIONAL COSTS

Aircraft combines a highly economical engine with simplified maintenance, ensuring the lowest flight hour and maintenance costs in its class. Designed for efficiency, it offers exceptional performance with minimal upkeep.

Cen

PRODUCT CAPABILITIES



L-39SKYFOX TRAINER CONFIGURATION

- 2 x 2 MFDs Genesys IDU-680
- FJ44-4M turbofan engine
- Martin Baker 0-0 ejection seat
- HUD
- HOTAS
- UHF/VHF communication system
- Jeppesen navigation database
- Air data computer

- Embedded virtual training system (VTS)
- Ground based training systems (GBTS), including CPT, FMS
- External fuel tanks (350 I)
- NVG compatible
- Traffic avoidance system (TAS)

L-39 SKYFOX WESTERN LIGHT ATTACK CONFIGURATION

- 5 hard points for variety of weapons and payloads
- Capable to carry both basic and smart weapons
- Air-to-air capability against slow and low moving targets
- Air-to-ground capability for close air support and asymmetric conflicts

L-39 EASTERN LIGHT ATTACK CONFIGURATION

- Border & maritime patroling
- EO/IR & radar ISR capabilities
- JTAC & CAS
- Detection and elimination of slow and low flying objects

L-39SKYFOX SPECIAL MISSION AIRCRAFT

- Border & maritime patroling
- EO/IR & radar ISR capabilities
- JTAC & CAS
- Detection and elimination of slow and low flying objects

SENSORS FOR L-39SKYFOX SPECIAL MISSION AIRCRAFT

- E0/IR & radar
- Cell / Satellite phone detection system (SIGINT)
- Infrared search and track system (IRST)(eg.: Leonardo SKYWARD)
- Self-protection system POD



CAS & LIGHT ATTACK CAPABILITY

AIR PATROLLING AND RECONNAISSANCE



REQUIREMENT

The best-trained pilots should command the skies —

Celestial space always must be protected

Not even a bird can slip across the border

L-39 SKYFOX MISSION CAPABILITIES SOLUTION

Flight and Tactical Training

Light Attack Capability

Air Patrolling and Reconnaissance





A NEWLY ENGINEERED AIRCRAFT, LEVERAGING CUTTING-EDGE MATERIALS AND TECHNOLOGIES, WHILE RETAINING THE EXCEPTIONAL QUALITIES OF ITS PREDECESSOR, THE ICONIC L-39 ALBATROS

L-39 Skyrox

- Shorter and lighter airframe for better flight agility
- Larger wing area for improved stability and handling
- Removal of wing tip fuel tanks for reduced drag
- New one-piece canopy for increased safety
- Elevated back pilot seat for better visibility boosted thrust-to-weight, reduced fuel use, extended range, and improved reliability at lower costs





NEW AIRFRAME

Composite parts New wet wing & wing tips Life up to 15,000 FH



NEW COCKPIT

Latest glass cockpit design Open architecture with wide customization options **Embedded Virtual Training** system



FJ44-4M ENGINE

Easy maintenance & long check interval (800 FH)

TAP Blue program covering scheduled and unscheduled maintenance and FOD

Low fuel consumption, low noise and heat signature



PERFORMANCE DATA

Empty weight	3,280 kg
Maximum take-off weight up to	5,600 kg
Internal fuel capacity	1,150 kg
External fuel tanks capacity	570 kg
Maximum speed	490 KCAS
Load factor (G)	+8/-4G
Max range clean	1,060 NM
Max endurance / w external fuel tank	ks 4h 45m
Max airframe service life	15,000 FH



STATE OF THE ART SYSTEMS

FCS modified to further enhance Martin Baker MK16 - CZ16H maneuverability

Best in class fuel system with highest range & endurance



NEW EJECTION SEAT

"0-0" ejection seats



PYLONS

5 hard points

Air-to-air armament

Air-to-ground armament

External fuel tanks

Payload up to 1,650 kg



FULL GLASS COCKPIT

HOTAS Throttle Grip & Control Stick

Digital clock

Head-up display (HUD)

Head-up display (HUD) is installed in the front cockpit to display flight information and aim simulated or live armament.

Multifunction MFD/PFD displays (2x)

Multifunction MFD/PFD displays (2x) are in both cockpits, with MFDs type IDU-680P, each 6 x 8 inches.

Universal management unit (UMU)

Universal Management Unit (UMU) is in both cockpits. The front cockpit has UMU1-K1007, and the rear has UMU1-A1003.

ESIS backup instrument system

ESIS backup instrument system displays flight data if the main display or avionics fail.

www.aero.cz/en/l-39-skyfox/|www.aero.cz





FLIGHT AND TACTICAL TRAINING

The L-39 Skyfox aircraft in training configuration can be used after the screener/primary with its new avionics interface, Genesys IDU 680, improving trainees' skills at Air Education and Training. It also features a sophisticated integrated training system for efficient tactical training of pilots for 4th and 5th generation fighters.

COMPREHENSIVE GROUND BASED TRAINING SYSTEM FOR COMPLEX TACTICAL TRAINING

- Learning management system
- Desktop trainer
- Cockpit procedure trainer
- Full mission simulator
- Mission planning and debriefing system



KEY ADVANTAGES:

Extremely cost-effective training solution

Simulated weapons delivery

Enhanced safety

Reduces training restrictions

Adaptive training system

VTS CORE FUNCTIONS:

Tactical situation display (TSD)

Virtual radar display (RDR)

Data link

VTS OPTIONAL UPGRADES:

Real time ground stations

Virtual SMS

Virtual RWR

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AIR FORCE CADETS TRAINING STRUCTURE



ONE SYSTEM ONE SUPPLIER **MULTIPLE ELEMENTS**

Flight training organization

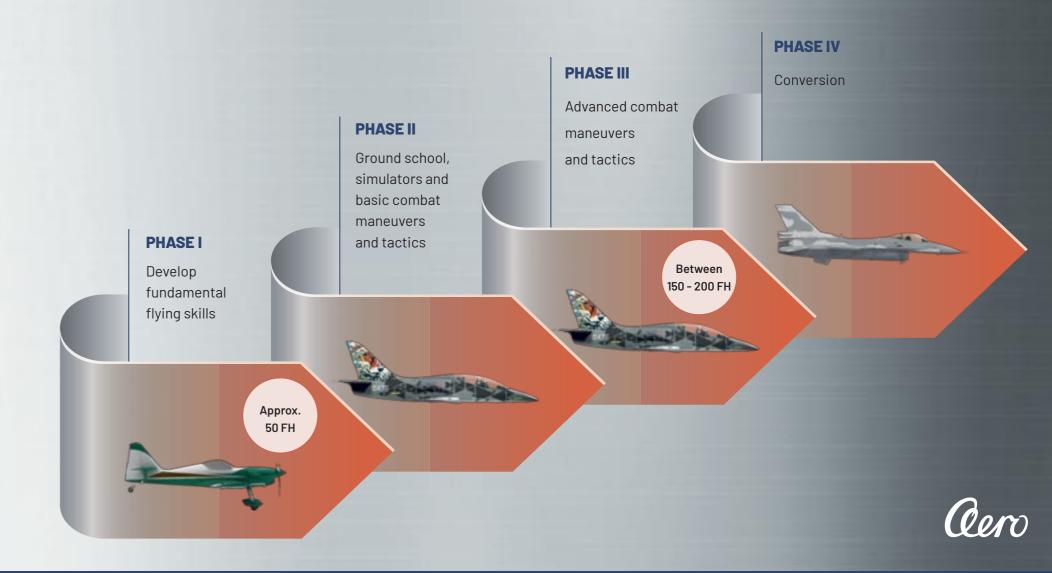
AERO CERTIFICATIONS

- Approved training organization
- EMAR 147









LIGHT ATTACK CAPABILITIES



A/A - A/G CAPABILITY • S-5 rockets - 57mm • Stores management system Integration of AESA radar (pod) • G/P bombs - OFAB-100 • Integration of MX-15 EO/IR pod Mk.81/82 G/P unguided bombs (laser tracker / designator) BDU33 Practice bombs • Integration of 12.7mm A/A laser guided missiles DHMP250 gun pod (AIM9, IRIS-T, others) - optional • A/G rockets 70mm guided/unguided

• Integration of CHAFF / FLARE dispenser

WEAPONS AND PAYLOADS - WEST OVERVIEW

EFT 350 Its	GP Bombs MK 81 (118 kg)	GP Bombs MK 82 (231 kg)	Rocket Launchers LAU 32 (70mm)	Gun Pod HERSTAL FN HMP 250	Training Bombs Dispenser for BDU-33	EO/IR Turret/ Snap-On-Rada

WEAPONS AND PAYLOADS - EAST OVERVIEW

EFT 350 lts	GP Bombs OFAB-100-120	Practice Bombs P-50-75	Rocket Launchers UB-16-57UMP (Rockets S-5)	Gun Pod HERSTAL FN HMP 250

Gen

CAS PROFILE



CONDITIONS:

Configuration:

2 x MK82 (500lb) bombs + 2 x ext. tank 200l

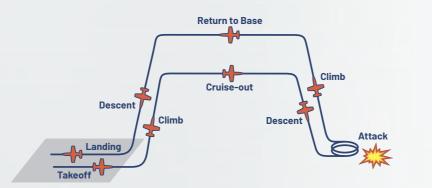
5x pylon (25kg each)

MISSION PHASES:

Climb to FL250:	15.8 min at maximum
Best cruise at FL250:	85.5 min at 0.46M (280KTAS)
Descent to SL:	5.4 min at Flight Idle, 270KCAS
Attack at SL:	8 min at 0.45M (300KTAS) at Max.
Climb to FL250:	9 min at Maximum
Best cruise at FL250:	101.5 min at 0.41M (250KTAS)
Descent to SL & landing:	4.5 min at flight idle, 270KCAS

H-L-H MISSION PERFORMANCE:

Total mission time:	243 min
Radius of action:	500 nm



CONDITIONS:

Configuration: same as Hi-Lo-Hi

MISSION PHASES:

Best cruise at 500ft:	95.7 min at 0.32M (210KTAS)
Attack at SL:	same as Hi-Lo-Hi
Best cruise at 500ft:	101.3 min at 0.30M (190KTAS)

L-L-L MISSION PERFORMANCE:

lotal mission time:	219 min	
Radius of action:	334 nm	
	Return to Base	

CONDITIONS: Configuration:

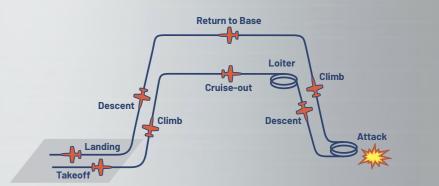
2x HMP 250 gun pod 5x pylon (25kg each)

MISSION PHASES:

Climb to FL250:	12.6 min at maximum
Best cruise at FL250:	46.7 min at 0.46M (270KTAS)
Descent to SL:	5 min at Flight Idle, 270KCAS
Attack at SL:	12 min at 0.45M (300KTAS) at Max
Climb to FL250:	9.8min at Maximum
Best cruise at FL250:	52.3min at 0.44M (250KTAS)
Descent to SL & landing:	4.5 min at Flight Idle, 270KCAS

H-L-H MISSION PERFORMANCE:

Total mission time: 156 min 289 nm Radius of action:



L-39 SKYFOX PERFORMS TACTICAL MISSIONS SIGNIFICANTLY BETTER THAN TURBOPROP AIRCRAFT

Significantly greater speed, rate of climb, payload and flight endurance. The L-39 Skyfox can perform missions which turboprops cannnot.

Five pylons capable to carry and employ a wide range of sensors and weapons, from practice bombs, unguided bombs, rockets and missiles to laser guided bombs and missiles, surveillance and electronic warfare equipment.



AIR PATROLLING AND RECONNAISSANCE

AIR PATROLLING AND RECONNAISSANCE

For reconnaissance missions, the aircraft can be equipped with EO/IR SENSOR (MX-15D Wescam or similar type) or others type of mission equipment such as sensors and radar mission pods.

MISSION POSSIBILITES OF L-39 SKYFOX

- Border & maritime patroling
- EO/IR & radar ISR capabilities
- JTAC & CAS
- Detection and elimination of slow and low flying objects



CUSTOMER SUPPORT AND SERVICES









AERO OFFERS COMPREHENSIVE SOLUTIONS

INTEGRATED LOGISTIC SUPPORT (ILS)

Spare parts, support equipment, training services, maintenance advantage plan

GROUND BASED TRAINING SYSTEM (GBTS)

Learning, education, training simulators, full mission simulators

MISSION PLANNIG AND DEBRIEFING SYSTEM (MPDS)

CURRENT CUSTOMERS L-39 SKYFOX









L-39 MODERNIZATION & SUPPORT











and many more all over the world













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