Cero L159 ALCA ADVANCED LIGHT COMBAT AIRCRAFT





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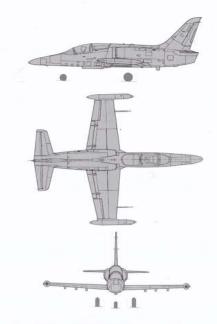
L159A SINGLE-SEAT LIGHT MULTI-ROLE COMBAT AIRCRAFT L159B TWO-SEAT LEAD-IN TRAINER AND LIGHT COMBAT AIRCRAFT

OPERATIONAL CAPABILITIES:

- · Close Air Support
- Tactical Reconnaissance
- Air Defence
- Counter Insurgency
- Border Patrol
- · Anti Ship Missions
- · Lead-in-Fighter and Weapons Training
- · Countinuation Training

MAIN OPERATIONAL BENEFITS OF THE L159 DESIGN:

- · Accurate navigation and weapons delivery
- · Wide range of stores
- Enhanced survivability
- Tactical mobility including ability to use semi-prepared airstrips
- Avionics integration via MIL-STD-1553-B databus facilitates future growth
- Pilot Vehicle Interface compatible with latest generation high-performance fighters
- · Autonomous aircraft operation from remote airfields
- On condition maintenance
- Computer based training aids
- LSA in accordance with MIL-STD-1388-1A-2B
- Low life-cycle costs
- · Simulation capabilities for training
- Proven safe and enhaced airframe
- High performance



COMPATIBILITY WITHWIDE RANGE OF STORES:

- Hamilton Standard Stores Management System
- Seven hardpoints
- MIL-1760 compatibility
- Wide range of NATO standard weapons including air-to-air and air-to-ground missiles
- Provision for future addition of new weapons (including medium range air-to-air missiles) and special pods for ECM, reconnaissance, night navigation and targeting

POWERPLANT:

Honeywell / ITEC F 124-GA-100 ADVANCED MILITARY TURBOFAN ENGINE

ENGINE PERFORMANCE (sealevel, static, 15°C / 59F)

Max. thrust	28.2 kN	6,330 lb
TSFC	79.2 kg/N/hr	0.777 lb/hr/lb
Inlet Airflow	42.7kg/sec	94.1lb/sec
Qualified according to:	MIL-E-87231	MIL-STD-1783

Bypass Ratio 0.456 Overall Presure Ratio 19.5

BASIC DATA (L159A)

EXTERNAL DIMENSIONS:

Wing span	9.54 m	31 ft 3 in
Length, overall	12.72 m	41 ft 8 in
Height, overall	4.77 m	15 ft 12 in

WEIGHTS:

Weight empty	4,320 kg	9,524 lb
Max ramp weight	8,000 kg	17,637 lb
Max fuel weight internal	1,596 kg	3,519 lb
- incl. 4 external tanks	2,973 kg	6,554 lb
Max external stores	2,340 kg	5,158 lb

PERFORMANCE:

Max level speed at S/L	936 km/h	505 KTAS	
Max rate of climb at S/L	62.1 m/s	12,210 ft/min	
Service ceiling	13,200 m	43,300 ft	
Take off run	470 m	1,541 ft	
Max range	1,570 km	850 nm	
(internal fuel only, 10% reser	rve)		
Max range	2,530 km	1,370 nm	
(internal and external fuel, 10	0% reserve)		

DESIGN LOAD FACTOR:

Max structural limit +8g, -4g





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