### L-39NG Main Advantages

- **Excellent maneuverability and handling characteristics common with L-39/59**
- **Proven design concept with more than 5,000,000 flight hours accumulated by the fleet**
- **Sharing of selected L-39/59 components**
- **Use of off-the-shelf components**
- **Lower maintenance demands on both manpower and equipment**
- **Increased performance (speed, range, endurance...)**
- **Reduced weight, using advanced materials**
- **State-of-the-art design features**
- **Lower fuel consumption**
- **Increased performance**
- **Low maintenance demands**
- **On-condition maintenance**
- **Best in class**
- **Couples a small batch delivery**

### Next Generation Jet Trainer

**L-39NG - Multi-role jet trainer**
- Developed as modern multi-role training aircraft for air forces generating airforces systems, including:
  - HUD, MFDs, full tactical info presentation.
  - On-condition maintenance.
  - Couples a small batch delivery.

**L-159 - NATO advanced jet trainer**
- Developed to AFTI/JSTO requirements for NATO, including:
  - HUD, tactical info presentation.

**L-29 - Standard WarPac jet trainer**
- Followed by MiG-15UTI in the syllabus:
  - Training for early supersonic fighters (MiG-21, Su-7, MiG-19).  
  - Simple systems.

**L-39 - Standard WarPac jet trainer**
- Followed by MiG-21U in the syllabus:
  - Training for MiG-23, Su-15, 17, Mirage, F-5E, F-16.

**L-59 - Standard WarPac jet trainer**
- Followed by double seater final type in the syllabus:
  - Developed for AFTI/JSTO, Su-22, Mirage.

**L-39N - Standard WarPac jet trainer**
- Followed by MiG-21U in the syllabus:

**L-159 - NATO advanced jet trainer**
- Developed for AFTI/JSTO requirements for NATO, including:
  - HUD, full tactical info presentation.

### L-39NG Map of All Civilian and Military L-39/59/159 Operators Up to Now

- Aero has trained more than 3,000 L-39, L-59 and L-159 jet training aircraft
- Total flight log of the fleet exceeds 5,000,000 flight hours
- L-39/59/159 operated by military operators in 45 countries
- L-39/59/159 operated in 15 civilian operators
- Service support for more than 45 years
- Experience with operation in all climatic conditions (tropics, desert, sea shore, mild climate)

### Aero Vodochody

AEROSPACE a.s.
U Letiště 374, Dobršenská Ves, 250 70
Czech Republic

[Website](http://www.aero.cz)
[Marketing](mailto:marketing@aero.cz)
## L-39NG NEXT GENERATION JET TRAINER

**BASIC DATA** (depends on the version)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LENGTH</td>
<td>10.94 m (35 ft 9 in)</td>
</tr>
<tr>
<td>WINGSPAN</td>
<td>9.56 m (31 ft 4 in)</td>
</tr>
<tr>
<td>HEIGHT</td>
<td>3.55 m (11 ft 8 in)</td>
</tr>
<tr>
<td>ENGINE</td>
<td>Williams International FJ44-4M</td>
</tr>
<tr>
<td>MAX THRUST (at M.60)</td>
<td>16.87 kN (3,790 lbst)</td>
</tr>
<tr>
<td>MAX TAKE-OFF</td>
<td>5,300 – 5,800 kg (12,125 – 13,230 lb)</td>
</tr>
<tr>
<td>MAX INTERNAL FUEL CAPACITY</td>
<td>2,590 km (1,400 NM)</td>
</tr>
<tr>
<td>MAX OPERATIONAL RATE OF CLimb</td>
<td>23 m/sec (4,500 ft/min)</td>
</tr>
<tr>
<td>MAX SPEED</td>
<td>775 km/h (420 KTAS)</td>
</tr>
<tr>
<td>MAX FLIGHT ALTITUDE</td>
<td>15,000 m (49,200 ft)</td>
</tr>
</tbody>
</table>

### MAIN DESIGN FEATURES

- Improved aerodynamics
- Single-piece canopy for improved cockpit visibility
- New escape system with "zero-zero" ejection seats
- Redesigned wing with integral fuel tanks significantly improving range and endurance
- New Williams International FJ44-4M turbofan engine with FADEC controls and electrical starting eliminating costly jet fuel starter
- Life cycle cost competitive with current advanced jet trainers
- Improved L-39 proven and reliable concept of L-39 jet trainer
- The aircraft is also suitable for light combat and reconnaissance missions.
- Integrated digital avionics with glass cockpit for increased training effectiveness
- Modular avionics core
- Configurable glass cockpit
- Improved visibility for both pilots
- "Zero-zero" ejection seats
- Extended range and endurance
- Power assisted ailerons
- nose wheel steering
- Bird strike protection
- Single-piece canopy
- Enhanced crosswind approach
- Increased fuel volume
- NVG compatibility
- Modular systems upgrade
- New construction with improved corrosion resistance
- SURGE RESISTANT ENGINE
- FADEC control
- Low maintenance demands
- Lifetime warranty (TAP Blue)
- No calendar service life limitations
- Low fuel consumption
- Low noise signature
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- Single piece cabin...