



CZECH AIR FORCE

22 HELICOPTER AIR BASE

CZECH H-1 PROGRAMME



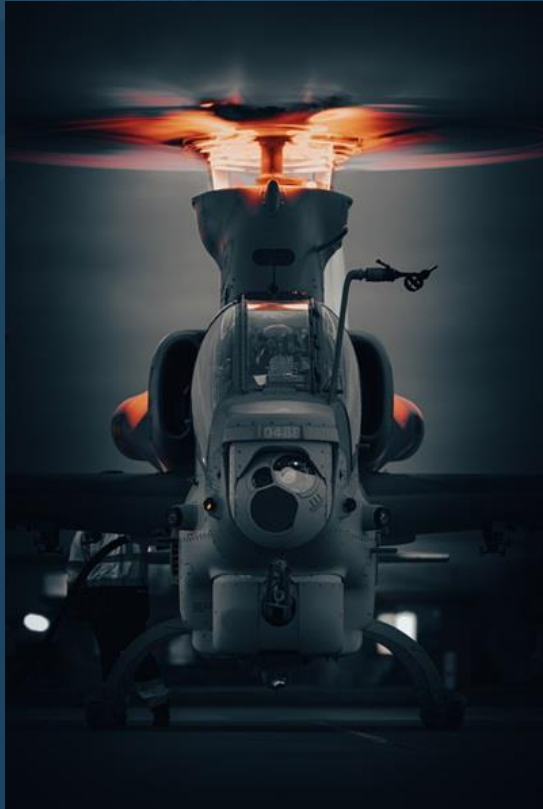
LTC Dusan Hautler, Acting Deputy Wing Commander, 22 Helicopter Air Base, Czech Air Force



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AGENDA



PROGRAMME OVERVIEW

HELICOPTER EQUIPMENT

TRAINING

MAINTENANCE

LOGISTICS

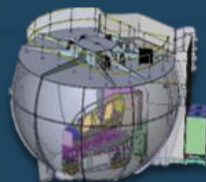
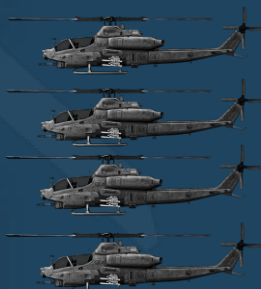
WAY AHEAD



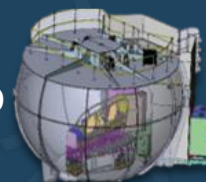
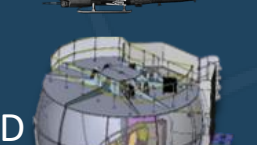
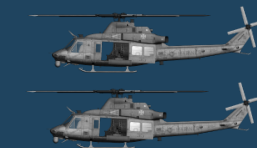
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PROGRAMME OVERVIEW



AH-1Z FTD



UH-1Y FTD





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HELICOPTER EQUIPMENT

Common equipment

- T700-GE-401C engines with IR suppression
- Composite bearingless main rotor hub
- Composite main and tail rotor blades
- Fully integrated glass cockpit
- Fuel, hydraulic, electric system components
- Radar/Missile/Laser Warning
- Countermeasures Dispensers
- Helmet sight THALES Optimized Top Owl (OTO)
- Semi-Automatic blade fold



UH-1Y

- 2 Door gunner mounts
 - GAU-17 Mini-Gun (7.62mm)
 - M240 7.62mm Machine Gun
 - GAU-21 Common Defense Weapon System (.50 cal)
 - Advanced Precision Kill Weapons System (APKWS)
 - Unguided rockets HYDRA 70mm
 - Auxiliary fuel tanks
- Rescue Hoist
- Fast rope gantry
- FLIR System



AH-1Z

- M 197 20mm automatic cannon
- 2 AIM-9 stations
- 4 Universal wing stations
 - AGM-114 Hellfire air-to-ground missiles
 - Advanced Precision Kill Weapons System (APKWS)
 - Unguided rockets HYDRA 70mm
 - Auxiliary fuel tanks
- Target Sight System (TSS)



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TRAINING



Aircraft delivery



Training

Training of CZE personnel in USA

Training under US MTT control

CZE sustainable training programme

2022

2023

2024

2025

2026

Infrastructure modernisation
(SIM building, Mx hangar,
Multipurpose storage building)

AH-1Z FTD
RFT





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MAINTENANCE

- Maintenance friendly design (Non-Destructive Inspections, easy and fast repairs, removals)
- Condition based maintenance vs. Mi-24 preventive maintenance (overhauls each 1000 FH/7 years)
- Obsolescence programme (retrofit, modernizations during life cycle)
- Weapon parts replacement (decrease in costs)
- Usage of software for monitoring of the fleet and aircraft health
 - Interactive Electronic Technical Manuals (IETM)
 - Health and Usage Monitoring System (HUMS)
 - Aviation Integrated Maintenance System (AIMS)





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LOGISTICS

- Up to 85 % identical components (engines, rotor system, avionics, etc.)



- Common and easy logistic support system
- Close cooperation with USG (PMA-276, 272, 242, 201)
- Access to the most modern technologies due to FMS programme
- Access to the most advanced weapon systems releasable for partners
- NATO standard ammunition
- Opportunity to participate on USMC new retrofit and modernization programmes during development

WAY AHEAD

- 8 helicopters from USG EDA programme (6 AH-1Z, 2 UH-1Y) in 2028
- UH-1Y Flight Training Device in 2028
- Successful implementation of H-1 helicopters
- Sustainable training programme within the Czech Air Force
- Intermediate (I) and Depot (D) level ambition (Czech industry involvement)
- Long term partner programme with USMC
 - Participation in USMC training courses
 - Experience exchange and sharing
 - Possible squadron exchange programme in the future
- Czech Army contribution to NATO capabilities
 - Close Air Support (CAS)
 - Casualty Evacuation (CASEVAC)
 - Aerial escort
 - Combat assault transport - troop transport, logistics
 - Rapid Insertion and Extraction - Fast Rope operations





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THANK YOU

FOR YOUR ATTENTION



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