



CIVIL AVIATION TRAINING SOLUTIONS

HAVELSAN, headquartered in Ankara, Türkiye, is a leading provider of Flight Simulation Training Device (FSTD) solutions and a trusted operator of pilot training centers. With over 42 years of experience, HAVELSAN develops Training systems, including;

Full Flight Simulators (FFS)

Flight Training Devices (FTD/IPT)

Flight Navigation Procedure Trainers (FNPT)

HAVELSAN's solutions are EASA/FAA certified and serve a diverse client base, including global airlines, training centers and military organizations. The company supports over 120 simulators both commercial and military in 15+ countries, providing turn-key training center solutions.

With decades of expertise in simulation technologies, HAVELSAN provides high-reliability training solutions and ensures thousands of hours of operation.

As a leading technology company and innovation center, HAVELSAN continuously integrates the latest advancements to enhance Training effectiveness and operational efficiency.





FLIGHT SIMULATION TRAINING DEVICES





FULL-FLIGHT SIMULATOR (FFS)

HAVELSAN manufactures EASA and FAA certified Level D full flight simulators, designed to enhance pilot training and improve operational efficiency.

General Features:

- FFS are type specific and developed by using aircraft and avionics Original Equipment Manufacturer (OEM) data.
- Full flight deck and cockpit replicas
- Real or replicated Aircraft (A/C) parts
- Simulated or A/C avionics
- Control loading system on all flight controls
- Flight Management System (Rehosted FMS) and full autopilot
- Aircraft subsystems (electronics, hydraulics, pneumatics, etc.)
- User-friendly instructor console software (IOS)
- Aerodynamic flight and ground models based on OEM data pack
- High definition collimated display system
- Advanced image generator including World Wide Data Base (WWDB)
- Worldwide FMS navigation database
- Fully automated Qualification Test Guide (QTG) tool
- Circuit breaker doors
- Fully Electrical 6 Degrees of Freedom (DOF) Motion System





FFS-LEVEL D TRAINING PROGRAMS SUPPORTED

- TR Type Rating
- MPL Multi Pilot Licence
- MCC Multi-Crew Co-operation
- APS MCC Airline Pilot Standarts MCC
- JOC Jet Oriented Course
- IFR Instrumented Flight Rules
- LOFT Line Oriented Flight Training
- UPRT Upset Prevention & Recovery Training

FFS-LEVEL D TRAINING CAPABILITIES

- Preflight Procedure
- Take-Off & Departure
- Inflight Manoeuvres
- Instrument Procedures
- Approach & Landing
- Normal/Abnormal Procedures
- Emergency Procedures
- Post Flight Procedures



STARLINE
SIRIUS

BOEING 737 MAX/NG
FULL FLIGHT SIMULATOR



STARLINE
SIRIUS

AIRBUS A320 CEO/NEO
FULL FLIGHT SIMULATOR





FLIGHT TRAINING DEVICE (FTD)

HAVELSAN FTDs provides realistic and cost-effective training solutions for pilots at various proficiency levels.

HAVELSAN manufactured FTDs enable pilots to practice every phase of training, providing a comprehensive environment to enhance their skills.

FTDs are A/C model & type specific and developed by using Aircraft and Avionics OEM data.

SUPPORTED TRAINING PROGRAMS

- TR Type Rating
- MPL Multi Pilot Licence
- MCC Multi-Crew Co-operation
- APS MCC Airline Pilot Standarts MCC
- JOC Jet Oriented Course
- IFR Instrumented Flight Rules
- LOFT Line Oriented Flight Training

FTD-LEVEL 1-2/4-5- 6 TRAINING CAPABILITIES

- Preflight Procedure
- Take-Off & Departure (Limited)
- Inflight Manoeuvres (Limited)
- Instrument Procedures
- Approach & Landing (Limited)
- Normal/Abnormal Procedures
- Emergency Procedures
- Post Flight Procedures
- Interactive Training Screens (EASA 1, FAA 4-5 only)



STARLINE VEGA

EASA LEVEL 2 / FAA LEVEL 6 FLIGHT TRAINING DEVICE FEATURES

- Complete flight deck and cockpit replica
- Real or replicated A/C parts
- Simulated or A/C avionics
- Crew Member Seats
- Control loading system on all flight controls
- Flight management system (rehosted FMS) and full autopilot, flight director and auto throttle
- Aircraft subsystems (electronics, hydraulics, pneumatics, etc.)
- User-friendly instructor console software (IOS)
- Aerodynamic flight and ground models based on OEM data pack
- High definition collimated/direct display system
- Advanced image generator with WWDB
- Worldwide FMS navigation database
- Fully automated QTG tool
- Circuit breaker panel Wall



STARLINE POLARIS

EASA LEVEL 1 / FAA LEVEL 4-5 FLIGHT TRAINING DEVICE FEATURES

- Responsive Multi-Touch Cockpit
- Tactile FMS Control Display Units
- Crew Member Seats (Optional)
- Realistic replicas of primary & secondary flight controls [yoke/side sticks, rudder pedals, toe brakes, throttles, gear and flap handle (Optional)
- Flight management system (rehosted FMS) and full autopilot, flight director and auto throttle
- Aircraft subsystems (electronics, hydraulics, pneumatics, etc.)
- User-friendly instructor console software (IOS)
- Aerodynamic flight and ground model based on OEM data pack
- Flat panel screen display
- Advanced image generator including World Wide Data Base (WWDB)
- Worldwide FMS navigation database
- Fully automated Qualification Test Guide (QTG) tool (Optional)





ONE-COCKPIT MULTI-PLATFORM SIMULATOR: AB-INITIO FLIGHT TRAINING

- Custom design generic cockpit
- High-definition display system
- FNPT II certified control loading system
- Aircraft subsystems (electronics, hydraulics, pneumatics, etc.)
- User-friendly instructor console software (IOS)
- Instructor console
- Special QTG tool
- Advanced image generator
- Worldwide navigation database
- Enhanced aero models developed by HAVELSAN





TRAINING CAPABILITIES

- Preflight Procedure
- Take-Off & Departure
- Inflight Manouvers
- Instrument Procedures
- Approach & Landing
- Normal/Abnormal Procedures
- Emergency Procedures
- Post Flight Procedures
- All Weather Options
- All System Malfunctions
- Up-to-date Map and Visuals
- FNPT II in SEP (Cessna 172SP)
- FNPT II in MEP (Piper PA-44)
- FNPT II MCC in Turboprop (Beechcraft B1900D)
- HAVELSAN Enhanced Aero Models
- PPL/CPL/IR/ME/MCC Training



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