

**Pennant**

# GENERIC HAND SKILLS TRAINER (GENSKILL)



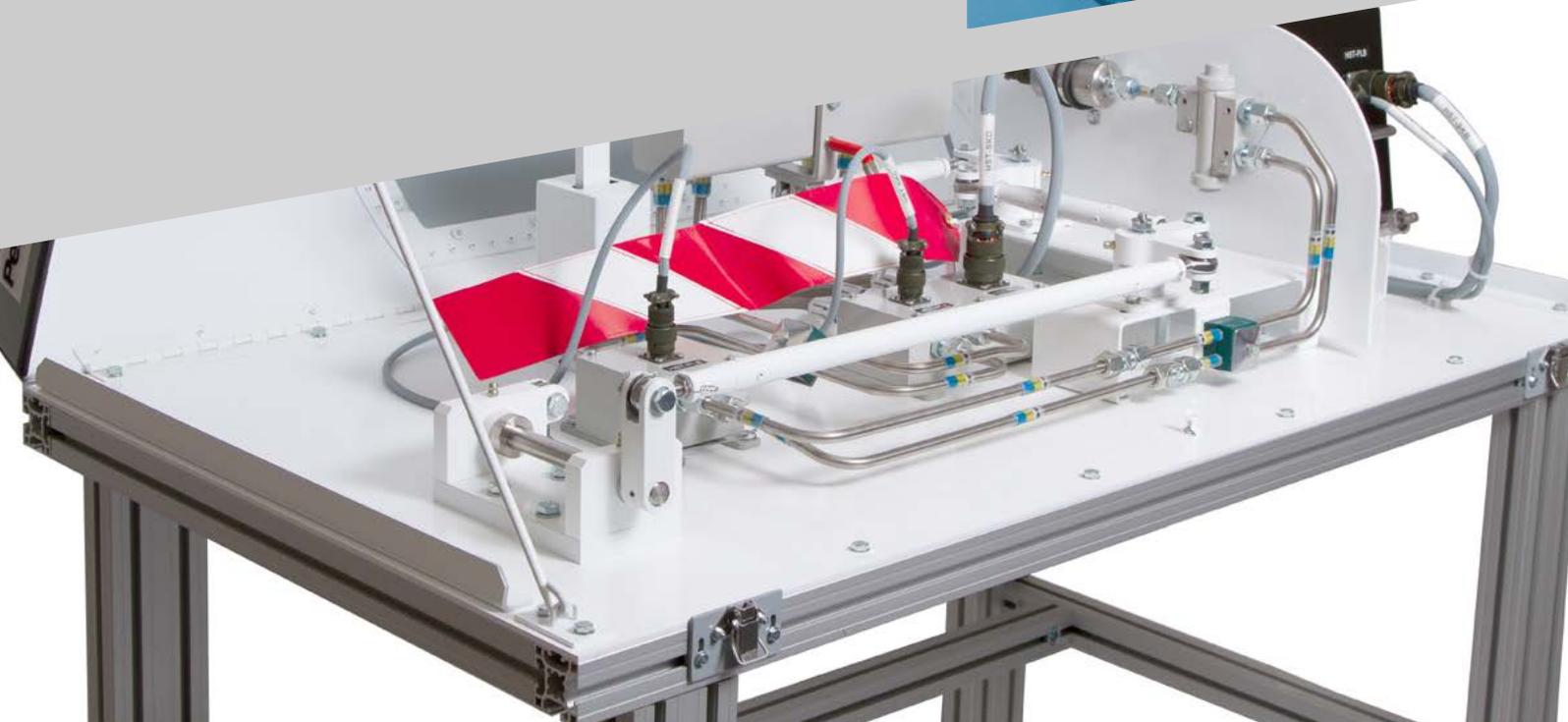
PRODUCT OVERVIEW

# INTRODUCTION

GenSkill is a freestanding physical representation of a typical Flying Control Run.

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# PRODUCT OVERVIEW

The Generic Hand Skills Trainer (GenSkill) provides training in the hand skills necessary to work on aircraft components in confined spaces through access panels in an aircraft fuselage.

The fuselage shaped shell contains access panels secured with different types of aircraft fasteners including quick release, toggle, torque, dzus and security bolts. The shell top is hinged for internal access.

The internal components are typical of aircraft systems and includes:

- Control system (control rods, pivot blocks, pivot arm, torque tube)
- Hydraulic components (Powered Flying Control Unit), Rigid pipes, Flexible pipes, Manifold, Valves)
- Avionic LRU (Cable, Connectors, Mounting tray, Line Replaceable Unit , LRU fit and removal)



# SUPPORTED TRAINING

The GenSkill supports the following elements of Hand Skill training:

- Hand tool procedures
- Fastener operation
- Component recognition/identification
- Wire locking devices
- Maintenance tasks
- Rigging



## TOOL CONTROL SYSTEM (OPTIONAL)

A fully integrated tool box and tool control system can be purchased with each trainer. The tools are etched and a individual shadow system used. However if the customer already has a fully equipped tool stores then the tool box can be optional.

The use of augmented reality software and a hand held tablet enables instructors to place 'hot spot' patches on the trainer. These 'hot spots' trigger training videos and representative zonal inspection scenarios to consolidate on the theory and practical lessons.

## AUGMENTED REALITY (AR) 'HOT SPOTS' SYSTEM

A set of hot spots can be attached to the trainer which using a tablet allows students to carry out a zonal inspection of the trainer. This scenario uses AR technology to emulate fault conditions on cable looms. The AR tool kit allows instructors to choose which hot spots are chosen, an equal proportion of AR scenes do not have faults. Part of the exercise uses multi-choose questions to check students can identify where fault and husbandry issues occur. The AR technology is also used to trigger a video clip associated with the flying control system.

