

# PINNACLE SOLUTIONS

An Employee Owned Company



## VIRTUAL MAINTENANCE TRAINER (VMT)



LEADING THE WAY IN INNOVATIVE TRAINING

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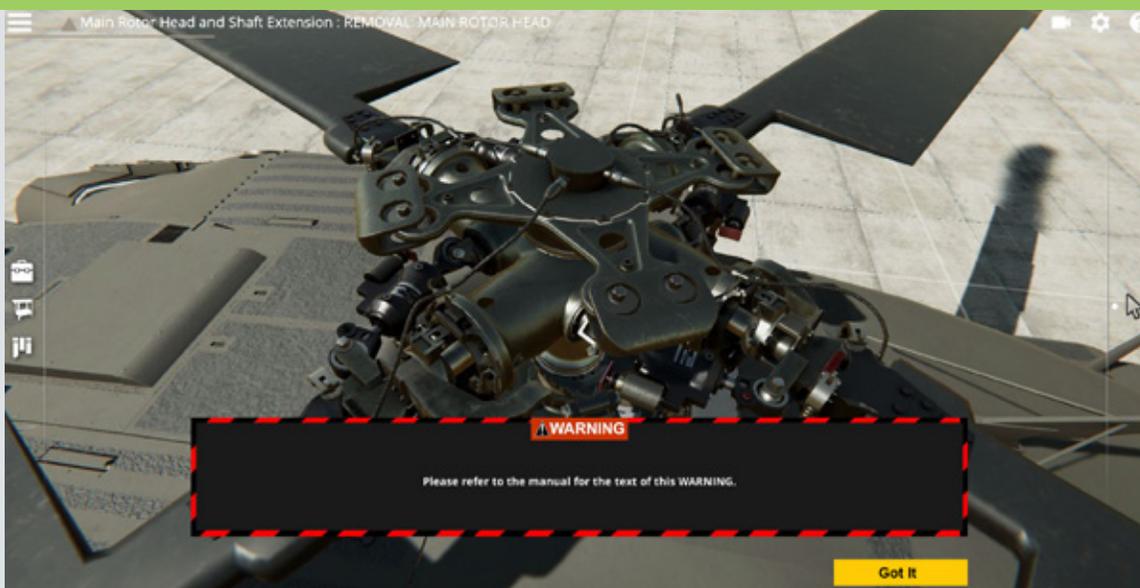


The Virtual Maintenance Trainer (VMT) is a sophisticated, computer-based training device that may be used for aircraft systems, subsystems, and component familiarization as well as fault identification, isolation, and remediation.

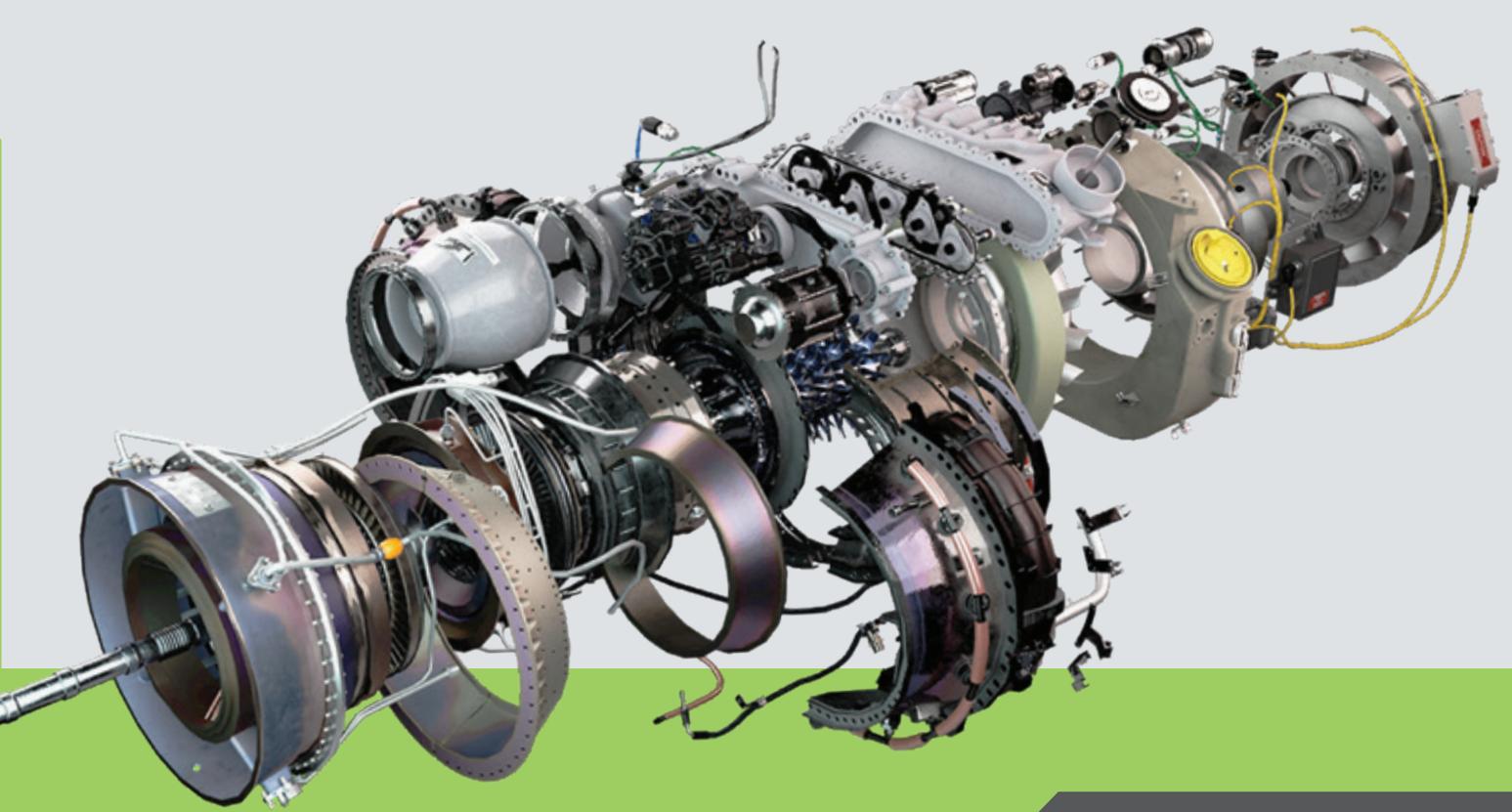
The VMT makes use of a high-fidelity virtual model of an aircraft or vehicle to deliver comprehensive qualification training to new maintainers or sustainment training to experienced users. High fidelity modeling enhances the student's learning experience through its attention to detail and accurate representation of complex mechanical systems. (The diagram to the right shows the detail of GE T700-GE-701C/D).



Through the integration of commercial and off-the-shelf software, custom processes and development tools, the Pinnacle developed VXT<sup>®</sup> Core creates a powerful capability to support any user's virtual training requirement.

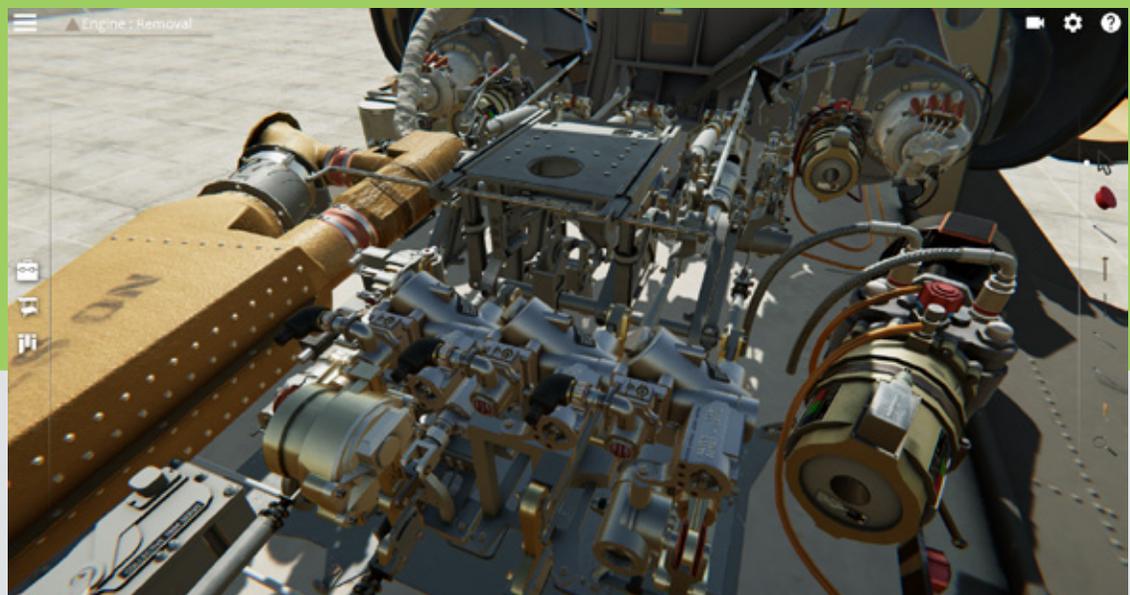


With the VMT, learning can be instructor-led (guided) or self-paced (unguided) as students perform tasks on a complex system with their maintenance manuals. (The diagram to the left depicts a UH-60 main rotor head removal).



The VMT provides three levels of interaction: Beginner level tasks provide step-by-step instruction guiding the student through the completion of a maintenance task. Intermediate level tasks allow the student to perform a task while referencing the appropriate maintenance manual. Advanced level tasks challenge the student's trouble shooting abilities as the instructor inserts faults into the system.

The VMT offers an intuitive, user-friendly interface that enables the student to navigate around a vehicle, its systems, and subsystems to complete a maintenance task or conduct trouble shooting. (See diagram above).





The Pinnacle Solutions VMT is a cost-effective solution for any customer. The VMT provides a high-fidelity maintenance training solution that eliminates dependencies on actual equipment to support maintainer training. The VMT eliminates the risk of damage to operational equipment, improves safety and reduces wear and tear on serviceable components used for training by providing a cost-effective and completely scalable solution that can augment, and in some cases completely replace, the more traditional and expensive, hardware-based maintenance training devices.

The VMT framework is designed to support rapid prototyping and production of any vehicle, device, or aircraft and can be customized to include English language familiarization or translations into any end user language if desired.

A  PRODUCT

